

NORTH AMERICAN STANDARD OUT-OF-SERVICE CRITERIA

***April 1, 2008**

COMMERCIAL VEHICLE SAFETY ALLIANCE

Part I – <i>North American Standard Driver Out-of-Service Criteria</i>	Pages 1 - 12
Part II – <i>North American Standard Vehicle Out-of-Service Criteria</i>	Pages 13 - 53
Part III – <i>North American Standard Hazardous Materials Out-of-Service Criteria</i>	Pages 55 - 59
Part IV – <i>North American Standard Administrative Out-of-Service Criteria</i>	Pages 61 - 62
Strategic Plan	Pages 63 - 66
Appendix	Pages 67 - 72

**THIS DOCUMENT REPLACES AND SUPERSEDES ALL
PREVIOUS OUT-OF-SERVICE CRITERIA**



Promoting Commercial Motor Vehicle Safety and Security

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PART I – DRIVER

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
1. DRIVER'S AGE	2
2. OPERATOR'S/CHAUFFEUR'S LICENSE OR PERMIT (NON CDL)	2
* 3. CDL	2
* LICENSE	2
LEARNER'S PERMIT	3
ENDORSEMENTS AND RESTRICTIONS	3
CLASSIFICATION	3
4. DRIVER WAIVER	3
SKILL PERFORMANCE EVALUATION CERTIFICATE	3
MEDICAL CERTIFICATE	3
5. SICKNESS OR FATIGUE	4
6. COMMUNICATION	4
7. DRIVER DISQUALIFICATION	4
8. DRUGS AND OTHER SUBSTANCES	4
* 9. INTOXICATING BEVERAGES	5
* 10. DRIVER'S RECORD OF DUTY STATUS – U.S.	5
PROPERTY-CARRYING VEHICLES	5
PASSENGER-CARRYING VEHICLES	6
* HOURS OF SERVICE OUT-OF-SERVICE ORDER	7
* FOOTNOTES	7
* 11. DRIVER'S RECORD OF DUTY STATUS – Canada	8
* FOOTNOTES	10
12. DRIVER'S RECORD OF DUTY STATUS – Mexico	10

PART II – VEHICLE

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
* 1. BRAKE SYSTEMS	
* DEFECTIVE BRAKES	14
BRAKE ADJUSTMENT LIMITS	15
* BRAKE LININGS/PADS	16
ADJUSTMENT LIMIT CHARTS	17
* FRONT STEERING AXLE(S) BRAKES	19
SPRING BRAKE CHAMBERS	20
TRAILER BREAKAWAY AND EMERGENCY BRAKING	20
PARKING BRAKE	20
* BRAKE DRUMS OR ROTORS (DISCS)	20
BRAKE HOSE/TUBING	20
LOW PRESSURE WARNING DEVICE	21
AIR LOSS RATE	21
TRACTOR-PROTECTION SYSTEM	21
AIR RESERVOIR	21
AIR COMPRESSOR	21
ELECTRIC BRAKES	21
HYDRAULIC BRAKES	22
VACUUM SYSTEM	22
* PERFORMANCE-BASED BRAKE TEST (PBBT)	23
2. COUPLING DEVICES	
FIFTH WHEELS	23
LOWER COUPLER	23
UPPER COUPLER	25
PINTLE HOOKS	26
DRAWBAR EYE	26
DRAWBAR/TONGUE	27
SAFETY DEVICES	27
SADDLE-MOUNTS	28
FULL TRAILER	28
3. EXHAUST SYSTEM	28
* 4. FRAME	
* MEMBERS	29
TIRE AND WHEEL CLEARANCE	29

DESCRIPTION**MANUAL PAGE****5. FUEL SYSTEM**

LIQUID FUELS	30
GASEOUS FUELS	30

6. HEADLAMPS, TAIL LAMPS, STOP LAMPS, TURN SIGNALS AND LAMPS / FLAGS ON PROJECTING LOADS

WHEN REQUIRED	32
ANYTIME	32

***7. SAFE LOADING/TIE-DOWNS**

GENERAL	33
AGGREGATE WORKING LOAD LIMIT	33
EDGE PROTECTION	33
* CHAIN DEFECTS	34
* WIRE ROPE DEFECTS	35
* CORDAGE (FIBER ROPE) DEFECTS	36
* SYNTHETIC WEBBING DEFECTS	37
* STEEL STRAPPING	39
FITTING OR ATTACHMENT DEFECTS	39
ANCHOR POINT DEFECTS	39
COMMODITY SPECIFIC REQUIREMENTS	40

8. STEERING MECHANISM

WHEEL FREE PLAY	41
STEERING COLUMN	41
FRONT AXLE BEAM (INCLUDING HUB)	41
STEERING GEAR BOX	42
PITMAN ARM	42
POWER STEERING	42
BALL AND SOCKET JOINTS	42
TIE RODS AND DRAG LINKS	42
NUTS	42
STEERING SYSTEM	43
C-DOLLY	43

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
* 9. SUSPENSION	
* AXLE PARTS/MEMBERS	43
SPRING ASSEMBLY	43
COIL/RUBBER SPRING AND AIR SUSPENSION	45
COMPOSITE SPRINGS	45
TORQUE/RADIUS/TRACKING/SWAY BAR COMPONENTS	46
* ADJUSTABLE AXLE	48
* 10. TIRES	
* FRONT STEERING AXLE(S)	48
* OTHER THAN FRONT STEERING AXLE(S)	49
11. VAN AND OPEN-TOP TRAILER BODIES	
UPPER RAIL	50
LOWER RAIL	50
FLOOR CROSSMEMBERS	51
SIDE PANELS	51
* 12. WHEELS, RIMS AND HUBS	
LOCK OR SIDE RING	51
* RIM CRACKS	51
* DISC WHEEL CRACKS	52
* BOLT/STUD HOLES (DISC WHEELS)	52
SPOKE WHEEL CRACKS	52
* TUBELESS DEMOUNTABLE ADAPTER CRACKS	52
FASTENERS	52
* WELDS	52
* HUBS	53
13. WINDSHIELD WIPERS	53
* 14. BUSES	
* EMERGENCY EXITS	53
* WIRING AND ELECTRICAL SYSTEMS	53

PART III – HAZARDOUS MATERIALS

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
1. SHIPPING PAPERS	56
2. PLACARDING	56
3. BULK PACKAGES	56
4. TRANSPORT VEHICLE MARKINGS	57
5. PIH MARKINGS	57
6. NON-BULK PACKAGES	58
7. LOADING AND SECUREMENT	58
8. FORBIDDEN ITEMS	58
9. RADIOACTIVE MATERIALS	58
10. EMERGENCY RESPONSE ASSISTANCE PLAN (ERAP) (In Canada Only)	59

PART IV – ADMINISTRATIVE

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
1. OPERATING AUTHORITY	62
*2. MEXICO DOMICILED CARRIERS OPERATING IN THE U.S.	62

STRATEGIC PLAN

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
1. CVSA MISSION, VISION AND VALUES	64
2. CVSA STRATEGIC GOALS	65

APPENDIX

<u>DESCRIPTION</u>	<u>MANUAL PAGE</u>
1. NORTH AMERICAN STANDARD INSPECTION LEVELS	67
2. QUALIFYING FOR CVSA DECALS	69
3. CRITICAL VEHICLE INSPECTION ITEMS	69
4. CVSA DECALS ON CARGO TANKS	70
5. VEHICLE INSPECTIONS	70
6. VEHICLE RE-INSPECTIONS	71
7. LOCATION OF CVSA DECALS	71
8. APPLICATION OF CVSA DECALS	72

Part I

NORTH AMERICAN STANDARD DRIVER OUT-OF-SERVICE CRITERIA

POLICY STATEMENT

The purpose of this part is to identify violations that render the commercial motor vehicle operator unqualified to drive or Out-of-Service. The necessity for all enforcement personnel to implement and adhere to these standards is: (1) a matter of law; (2) perceived as necessary by the society we are charged with protecting, and (3) a professional obligation if substantial enhancement in the safety of commercial motor vehicle operators is to be achieved.

Except where state, provincial, or federal laws preclude enforcement of a named item, motor carrier safety enforcement personnel and their jurisdictions shall comply with these Out-of-Service violation standards.

OUT-OF-SERVICE VIOLATION: Violations under this category preclude further operation of a commercial motor vehicle by its driver for a specified period of time or for some violations until a required condition is met. An example of the former standard is hours of service violations.

FMCSR code references in the *North American Standard Out-of-Service Criteria* are simply recommendations to help inspectors find an appropriate citation. Other codes may be more suitable for a specific condition.

1. **DRIVER'S AGE**

Is not at least 21 years of age (391.11(b)(1) or is not exempted under 390.3(f) or 391.2.)
Place driver Out-of-Service.

2. **OPERATOR'S/CHAUFFEUR'S LICENSE OR PERMIT (NON-CDL)**

- a. Vehicle 26,000 lbs. or less GVWR not designed to transport 16 or more passengers or placarded loads of hazardous materials.

Is not licensed for the type of vehicle being operated. **Place driver Out-of-Service.** (Out-of-Service action to be initiated only upon home jurisdiction license verification.) (391.11(b)(5))

NOTE: "Is not licensed" includes, but is not limited to: improper class, expired, cancelled, revoked, disqualified, suspended, or withdrawn.

- b. Endorsements and Restrictions

Operating a commercial vehicle without proper endorsement or in violation of restrictions. (391.11(b)(5)) **Place driver Out-of-Service.**

NOTE: Canadian operator's license endorsements are included in the class. Transporting dangerous goods requires a training certificate. **Place driver Out-of-Service if not in possession.**

NOTE: Mexican drivers must have a Category E license to transport hazardous materials. All other endorsements are included in the class. **Place driver Out-of-Service if not in possession.**

* 3. **CDL**

- * a. License

Does not possess a valid CDL issued by his/her state or jurisdiction of domicile. **Place driver Out-of-Service.** (Out-of-Service action to be initiated only upon home jurisdiction license verification.) (383.23(a)(2))

NOTE: "Does not possess a valid CDL" includes, but is not limited to: improper class, expired, cancelled, revoked, disqualified, suspended, or withdrawn.

NOTE: Canadian operators not possessing a valid Provincial or Territorial license of the correct class. **Place driver Out-of-Service.**

* **NOTE:** Mexican operators who do not possess a valid Licencia Federal. (Can be recognized by the medallion in the upper left hand corner containing the Mexican national symbol of an eagle with a serpent. The words Licencia Federal de Conductor and logo SCT are also on the front of the license.) **Place driver Out-of-Service.**

b. Learner's Permit

Is not accompanied by the holder of a valid CDL. (383.23(c)) **Place driver Out-of-Service.**

c. Endorsements and Restrictions

Operating a commercial vehicle without proper endorsements or in violation of restrictions. (383.23(a)(2), 391.11(b)(5)) **Place driver Out-of-Service.**

NOTE: Canadian operator's license endorsements are included in the class. Transporting dangerous goods requires a training certificate. **Place driver Out-of-Service if not in possession of training certificate.**

NOTE: Mexican drivers must have a Category E license to transport hazardous materials. All other endorsements are included in the class.

d. Classification

Does not possess proper class of license for vehicle being operated. (383.91(a)) **Place driver Out-of-Service.**

4. **DRIVER WAIVER**

a. Skill Performance Evaluation Certificate

No skill performance evaluation in possession, when required. (391.49(j)) **Place driver Out-of-Service.**

b. Medical Certificate

(1) Operating a commercial vehicle without corrective lenses or hearing aid as indicated on the driver's medical certificate. (391.11(b)(4)) **Place driver Out-of-Service.**

- (2) When an inspector has knowledge and/or evidence that a driver is/is not in possession of a valid medical certificate, and is not in possession of any and all required exemptions for the following conditions: vision, hearing, insulin-using diabetes, epilepsy or any other condition which is likely to cause loss of consciousness or any loss of ability to control a commercial motor vehicle. (391.11(b)(4)) **Place driver Out-of-Service.**

NOTE: Canadian operators possessing a valid Provincial or Territorial license of the proper class includes a valid Medical Certificate.

NOTE: Mexican operators possessing a valid Licencia Federal de Conductor of the proper class includes a valid Medical Certificate.

5. **SICKNESS OR FATIGUE**

When so impaired that the driver should not continue the trip. (392.3)
Place driver Out-of-Service until no longer impaired.

6. **COMMUNICATION**

In recognition of the three countries' language differences, it is the responsibility of the driver and the motor carrier to be able to communicate in the country in which the driver/carrier is operating so that safety is not compromised. Driver is unable to communicate sufficiently to understand and respond to official inquiries and directions. (391.11(b)(2)) **Place driver Out-of-Service.**

7. **DRIVER DISQUALIFICATION**

Driver disqualification under the provisions of (383.51(a) or 391.15(a)).
Place driver Out-of-Service until re-qualification is established.

8. **DRUGS AND OTHER SUBSTANCES; AS IDENTIFIED UNDER SECTION 392.4(a).**

a. Shall not be in possession

Is in possession. (392.4(a))
Place driver Out-of-Service for twenty-four (24) consecutive hours.

b. Shall not be under the influence

Is under the influence, with probable cause. (392.4(a))
Place driver Out-of-Service for twenty-four (24) consecutive hours.

*** 9. INTOXICATING BEVERAGES**

Under the influence of intoxicating beverage, consumes an intoxicating beverage regardless of its alcohol content, or have any measured alcohol concentration or any detected presence of alcohol while on duty, or operating or in physical control of a motor vehicle. (392.5(a)) **Place driver Out-of-Service for twenty-four (24) consecutive hours.**

Be on duty or operate a motor vehicle while the driver possesses an intoxicating beverage, regardless of its alcohol content. (392.5(a)) **Place driver Out-of-Service for twenty-four (24) consecutive hours.**

* Driver violating any roadside out-of-service order regarding intoxicating beverages. (392.5(c)(2)) **Place driver Out-of-Service for twenty-four (24) consecutive hours.**

* **NOTE:** The driver would not be placed Out-of-Service, if the driver has taken time off equivalent to the original out-of-service order.

*** 10. DRIVER'S RECORD OF DUTY STATUS – U.S.**

a. Property-Carrying Vehicles (395.3)

(1) 11 Hour Rule (See footnotes 3,4,6,8)

Driving more than eleven (11) hours following ten (10) consecutive hours off duty. (395.3(a)(1)) **Place driver Out-of-Service until such time as eligibility to drive is re-established.**

(2) 14 Hour Rule (See footnotes 3,4,5,6,8)

Driving beyond the fourteenth (14) hour after coming on duty following ten (10) consecutive hours off duty. (395.3(a)(2)) **Place driver Out-of-Service until such time as eligibility to drive is re-established.**

(3) 60/70 Hour Rule (See footnotes 3,4,7)

Driving after being on duty more than 60 hours in seven (7) consecutive days or 70 hours in eight (8) consecutive days. (395.3(b)) **Place driver Out-of-Service until such time as eligibility to drive is re-established.**

(4) No Record of Duty Status (Log Book)

No record of duty status in possession when one is required. (395.8(a)) **Place driver Out-of-Service for ten (10) consecutive hours.**

(5) No Previous 7 Days (See footnote 2)

Failing to have in possession a record of duty status for the previous seven (7) consecutive days. (395.8(k)(2)) See Exception 395.13(b)(3) **Place driver Out-of-Service for ten (10) consecutive hours.**

(6) False Record of Duty Status (Log Book)

A required record of duty status that does not accurately reflect the driver's actual activities and duty status (including time and location of each duty status change and the time spent in each duty status) in an apparent attempt to conceal a violation of an hours of service limitation. (395.8(e)) **Place driver Out-of-Service for ten (10) consecutive hours.**

b. Passenger-Carrying Vehicles (395.5)

(1) 10 Hour Rule (See footnotes 3,4,8)

Driving more than ten (10) hours following eight (8) consecutive hours off duty. (395.5(a)(1)) **Place driver Out-of-Service until such time as eligibility to drive is re-established.**

(2) 15 Hour Rule (See footnotes 3,4,8)

Driving for any period after having been on duty fifteen (15) hours following eight (8) consecutive hours off duty. (395.5(a)(2)) **Place driver Out-of-Service until such time as eligibility to drive is re-established.**

(3) 60/70 Hour Rule (See footnotes 3,4)

Driving after being on duty more than 60 hours in seven (7) consecutive days or 70 hours in eight (8) consecutive days. (395.5(b)(1) or (2)) **Place driver Out-of-Service until such time as eligibility to drive is re-established.**

(4) No Record of Duty Status (Log Book)

No record of duty status in possession when one is required. (395.8(a)) **Place driver Out-of-Service for eight (8) consecutive hours.**

(5) No Previous 7 Days (See footnote 2)

Failing to have in possession a record of duty status for the previous seven (7) consecutive days. (395.8(k)(2)) See Exception 395.13(b)(3)
Place driver Out-of-Service for eight (8) consecutive hours.

(6) False Record of Duty Status (Log Book)

A required record of duty status that does not accurately reflect the driver's actual activities and duty status (including time and location of each duty status change and the time spent in each duty status) in an apparent attempt to conceal a violation of an hours of service limitation. (395.8(e)) **Place driver Out-of-Service for eight (8) consecutive hours.**

* c. Hours of Service Out-of-Service Order (See footnote 9)

Driver violating any roadside out-of-service order regarding hours of service. (395.13(d)) **Place driver Out-of-Service for ten (10) consecutive hours.**

Footnotes for driver's record of duty status – U.S.

1. Removed and reserved.
2. Exception (395.13(b)(3)). A driver failing only to have possession of a record of duty status current on the day of examination and the prior day, but has completed records of duty status up to that time (previous 6 days) will be given the opportunity to make the duty status record current.
3. Drivers must comply with the hours of service rules of the country (Canada, United States or Mexico) that the driver is operating (driving) in.
4. Drivers operating in the State of Alaska (395.1(h)).
 - a. Property-Carrying CMV-15 hours driving time and 20 hours on duty time following 10 hours off duty. 70 hours in 7 consecutive days, and 80 hours in 8 consecutive days.
 - b. Passenger-Carrying CMV-15 hours driving time and 20 hours on duty time following 8 hours off duty. 70 hours in 7 consecutive days, and 80 hours in 8 consecutive days.
5. Exception (395.1(o)). A property-carrying driver is allowed one (1) 16 hour on duty day within the current 7 or 8 consecutive day period provided the driver has returned to the driver's normal work reporting location and the carrier released the driver from duty at that location for the previous five duty tours the driver has worked.

NOTE: The driver *may* have more than one 16 hour on duty day within the previous 7 or 8 day calendar period in circumstances when there is a valid 34 hour restart.

6. Exception (395.1(e)(2)). A *Short Haul Property Carrying Driver, not requiring a CDL, and within a 150 air-mile radius* is allowed two (2) 16 hour on duty days within any 7 consecutive day period provided the driver has returned to the driver's normal work reporting location at the end of each duty tour. The motor carrier that employs the driver must maintain and retain accurate and true time records for 6 months. See 395.1(e)(2)(i-ix) for all provisions of the exception.

NOTE: Drivers taking advantage of this exception *cannot* use the provisions of 395.1(e)(1) [100 air-mile radius], (g) [Sleeper Berths] and (o) [one 16-hour duty tour].

7. 34 Hour Restart (395.3(c)(1) or (2)). Any period of 7 or 8 consecutive days may end with the beginning of any off duty period of 34 or more consecutive hours.
8. Travel Time (395.1(j)(1)&(2)). When a driver at the direction of the motor carrier is traveling, but has no direct responsibility to the carrier, the time is counted as on-duty time *unless* the driver is afforded at least (for property carrying vehicles) 10, or, (for passenger carrying vehicles) 8 consecutive hours off duty when arriving at the destination. In this case the driver is off duty for the entire period.
- * 9. The driver would not be placed out-of-service, if the driver has taken time off equivalent to the original out-of-service order.

* 11. **DRIVER'S RECORD OF DUTY STATUS – Canada**

* a. **Driver Impairment**

Driver's faculties are impaired to the point where it is unsafe for the driver to drive, or driving would likely jeopardize safety. **Place driver Out-of-Service for ten (10) consecutive hours.**

* b. **13 Hour Rule (See footnotes 1,3,4)**

- * (1) Driving more than thirteen (13) hours following eight consecutive hours off duty. **Place driver Out-of-Service for eight (8) consecutive hours.**
- * (2) Driving more than thirteen (13) hours in a day. **Place driver Out-of-Service for ten (10) consecutive hours.**

- * c. 14 Hour Rule (See footnotes 1,3,4)
 - * (1) Driving for any period after having been on duty fourteen (14) hours following eight (8) consecutive hours off duty. **Place driver Out-of-Service for eight (8) consecutive hours.**
 - * (2) Driving for any period after having been on duty fourteen (14) hours in a day. **Place driver Out-of-Service for ten (10) consecutive hours.**
- * d. 16 Hour Rule (See footnotes 1,4)

Drive after 16 hours of elapsed time between mandatory periods of off duty time. **Place driver Out-of-Service for eight (8) consecutive hours.**
- * e. 70/120 Hour Rules (See footnotes 1,3,4,5)

Driving after being on duty more than 70 hours in 7 consecutive days or 120 hours in 14 consecutive days. **Place driver Out-of-Service until such time as eligibility to drive is re-established.**
- * f. 10 Hour Off Duty Rule (See footnote 1)

Driver fails to take 10 hours off duty in a day. **Place driver Out-of-Service until such time as eligibility to drive is re-established.**
- * g. 24 Hours Off (See footnote 1)

Driver fails to take 24 hours off duty in the previous 14 days. **Place driver Out-of-Service for twenty-four (24) consecutive hours.**
- * h. No Daily Log (See footnote 2)

The driver is unable or refuses to produce a daily log for the current trip, a copy of the daily logs for the previous fourteen consecutive days, or any supporting documents relevant to the current trip. **Place driver Out-of-Service for seventy-two (72) consecutive hours.**
- * i. False Log (See footnote 1)

A daily log that does not accurately reflect the driver's actual activities and duty status (including time and location of each duty status change and the time spent in each duty status) in an apparent attempt to conceal a violation of an hours of service limitation. **Place driver Out-of-Service for seventy-two (72) consecutive hours.**

Footnotes for driver's record of duty status – Canada

- * 1. Sleeper Berth Operations
 - * a. Drivers involved in sleeper berth operations (sleeper teams) placed Out-of-Service for “Hours of Service” violations may be replaced by a co-driver, if the co-driver has hours available to drive.
 - * b. A solo driver using a sleeper berth to obtain rest who exceeds the hours of service limitations shall be placed Out-of-Service until said driver has hours available to drive.
- * 2. A driver failing only to have possession of a daily log current on the day of examination and/or the prior day, but has completed required daily logs up to that time will be given the opportunity to make the daily log current.
- * 3. Drivers must comply with the hours of service rules of the country (Canada, United States or Mexico) that the driver is operating (driving) in.
- * 4. Drivers operating north of the 60th parallel may not drive after accumulating 15 hours driving time, 18 hours on-duty time, 20 hours of elapsed time between mandatory periods of off duty time, 80 hours in 7 consecutive days or 120 hours in 14 days.
- * 5. When applying the 120 hours in a 14 consecutive day period, drivers must take 24 consecutive hours off-duty prior to accumulating more than 70 hours on duty (prior to accumulating more than 80 hours on duty north of 60th parallel).

12. DRIVER'S RECORD OF DUTY STATUS – Mexico**a. Daytime Working Day (6:00-20:00)**

Driving more than eight (8) hours in the daytime working day; it can also be increased up to three more hours during three non-consecutive days per week. **It is considered that the driver must not resume his/her work until the beginning of the following daytime working day. For each working day, the driver must have at least a half-hour break.**

b. Daytime Working Week (6:00-20:00)

Driving after being on duty more than 54 hours in the daytime working week during seven consecutive days, in which there were half-hour breaks during each working day. **It is considered that the driver must not resume his/her work until having at least 24 hours of rest.**

c. Night Working Day (20:00-6:00)

Driving more than seven (7) hours in the night working day; it can also be increased up to three more hours during three non-consecutive days per week.

It is considered that the driver must not resume his/her work until the beginning of the following night working day. For each working day, the driver must have at least a half-hour break.

d. Night Working Week (20:00-6:00)

Driving after being on duty more than 48 hours in the night working week during seven consecutive days, in which there were half-hour breaks during each working day. **It is considered that the driver must not resume his/her work until having at least 24 hours of rest.**

e. Mixed Working Day (periods between the daytime and night working days; 3 ½ hour maximum in the night working day)

Driving more than seven and a half (7 ½) hours in the mixed working day; it can also be increased up to three more hours during three non-consecutive days per week. **It is considered that the driver must not resume his/her work until the beginning of the following mixed working day. For each working day, the driver must have at least a half-hour break.**

f. Mixed Working Week (periods between the daytime and night working days; 3 ½ hour maximum per night working day)

Driving after being on duty more than 51 hours in the night working week during seven consecutive days, in which there were half-hour breaks during each working day. **It is considered that the driver must not resume his/her work until having at least 24 hours of rest.**

g. No Record of Duty Status (Log Book)

No record of duty status in possession when one is required. **It is considered that the driver must not resume his/her work until the beginning of the following working day.**

h. No Previous 7 Days

Failing to have in possession a record of duty status for the previous seven (7) consecutive days. **It is considered that the driver must not resume his/her work until having at least 24 hours of rest.**

i. False Record of Duty Status (Log Book)

A required record of duty status that does not accurately reflect the driver's actual activities and duty status (including time and location of each duty status change and the time spent in each duty status) in an apparent attempt to conceal a violation of an hours of service limitation. **It is considered that the driver must not resume his/her work until the beginning of the following working day or until having 24 hours of rest in the working week.**

Part II

NORTH AMERICAN STANDARD VEHICLE OUT-OF-SERVICE CRITERIA

POLICY STATEMENT

The purpose of this part is to identify critical vehicle inspection items and provide criteria for placing vehicles Out-of-Service subsequent to a safety inspection.

Except where state, provincial, or federal laws preclude enforcement of a named item, motor carrier safety enforcement personnel and their jurisdictions shall comply with these Out-of-Service violation standards.

NOTE: Decal Qualification: Each vehicle (motorcoach, school bus, other bus, truck, truck tractor, semi-trailer, trailer, converter dollies etc.) used singularly or in combination may qualify for a CVSA decal if it passes inspection, and a CVSA decal shall be applied. "Pass Inspection" means that during a North American Standard Level I or Level V Inspection no defects are found of the following critical vehicle inspection items: brake systems; coupling devices; exhaust systems; frame; fuel systems; lighting devices (turn signals; brake lamps; tail lamps; head lamps; lamps/flags on projecting loads); safe loading; steering mechanism; suspension; tires; van and open-top trailer bodies; wheels and rims; windshield wipers and emergency exits for buses. For the purpose of a CVSA decal issuance, if no violation is detected during a North American Standard Level I or Level V Inspection due to a hidden part which includes the vehicle inspection items listed above, a decal shall be applied.

The decal criteria applies only to the condition of the vehicle, not the driver. It is possible for a driver to be Out-of-Service and still have vehicle(s) qualify for a decal. If each vehicle, whether used singly or in a combination, passes inspection, a current CVSA decal shall be affixed and no other CVSA decals shall be visible.

OUT-OF-SERVICE: Authorized personnel shall declare and mark "Out-of-Service" any motor vehicle which by reason of its mechanical condition or loading would be likely to cause an accident or breakdown. An "Out-of-Service Vehicle" sticker shall be used to mark vehicles "Out-of-Service." No motor carrier shall require nor shall any person operate any commercial motor vehicle declared and marked "Out-of-Service" until all repairs required by the "Out-of-Service notice" have been satisfactorily completed.

No person shall remove the "Out-of-Service Vehicle" sticker from any motor vehicle prior to completion of all repairs required by the "Out-of-Service Notice."

Violations, other than Out-of-Service conditions, detected during the inspection process will not preclude the completion of the current trip or dispatch. However, such violations must be corrected or repaired prior to redispach.

These criteria are neither suited nor intended to serve as vehicle maintenance or performance standards.

FMCSR code references in the *North American Standard Out-of-Service Criteria* are simply recommendations to help inspectors find an appropriate citation. Other codes may be more suitable for a specific condition.

*** 1. BRAKE SYSTEM**

*** a. Defective Brakes**

The number of defective brakes is equal to or greater than 20 percent of the service brakes on the vehicle or combination. A defective brake includes any brake that meets one of the following criteria.

NOTE: Steering axle brakes under item 1. b. – “Front Steering Axle(s) Brakes”, are to be included in the 20 percent criterion.

Defective Brake Chart (below) may be used to assist in determining when a vehicle/combination is to be placed Out-of-Service.

Total Number of Brakes Required to be on a Vehicle Combination	Total Number of Defective Brakes Necessary to Place the Vehicle or Combination Out-of-Service
4	1
6	2
8	2
10	2
12	3
14	3
16	4
18	4
20	4
22	5
**	

** For a vehicle or combination, which exceeds 22 brakes.

*** Total Number of Defective Brakes Necessary to Place the Vehicle or Combination Out-of-Service**

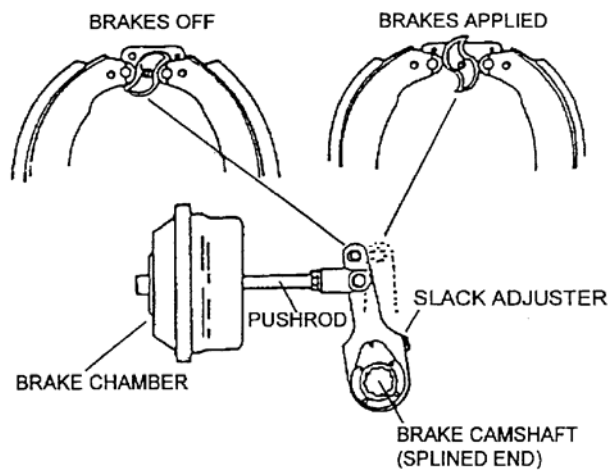
Determine the number of defective brakes required by using 20% of the total number of brakes on the vehicle or combination (i.e. $24 \times .20 = 4.8$ brakes). Round all fractions up to the next whole number (i.e. 4.8 brakes = 5 required defective brakes).

*** Calculating the Number of Defective Brakes**

When determining the number of defective brakes, round all fractions down to the next whole number (i.e. 4.5 brake violations = 4 defective brakes).

- (1) Absence of effective braking action upon application of the service brakes (such as brake linings failing to move or contact braking surface upon application). (393.48(a))
- (2) Missing or broken mechanical components including: shoes; linings; pads; springs; anchor pins; spiders; cam rollers; pushrods, and air chamber mounting bolts. (393.48(a))
- (3) Loose brake components including air chambers, spiders, and cam shaft support brackets. (393.48(a))
- (4) Audible air leak at brake chamber. (Example: ruptured diaphragm, loose chamber clamp, etc.)

NOTE: Also check under item 1. i. – “Air Loss Rate”. (396.3(a)(1))

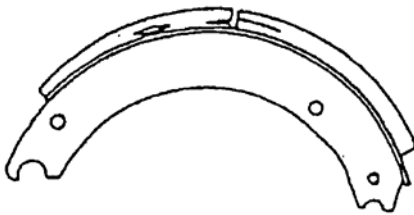


- (5) Brake adjustment limits. Bring reservoir pressure between 90 and 100 psi (620-690 kPa), turn engine off and then fully apply the brakes.
 - (a) One brake at 1/4 inch (6mm) or more beyond the adjustment limit. (Example: Type 30 clamp type brake chamber pushrod measured at 2-1/4 inches (57mm) would be one defective brake.) (393.47(e))
 - (b) Two brakes less than 1/4 inch (6mm) beyond the adjustment limit also equal one defective brake. (Example: Type 30 clamp type brake chamber pushrods measure - Two at 2-1/8 inches (54mm). This example would equal one defective brake. (393.47(e))
 - (c) Any wedge brake where the combined brake lining movement of both top and bottom shoes exceeds 1/8 inch (3mm). (393.47(f))

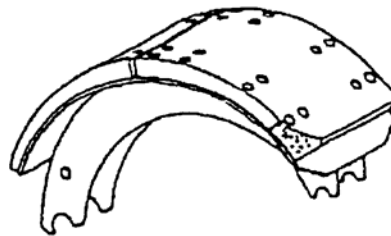
* (6) Brake linings or pads. (Except on power unit steering axles.)

(a) Cracked, loose, or missing lining.

- i. Lining cracks or voids of 1/16" (1.6mm) in width observable on the edge of the lining.
- ii. Portions of a lining segment missing such that a fastening device (rivet or bolt) is exposed when viewing the lining from the edge.
- iii. Cracks that exceed 1-1/2" (38mm) in length.
- iv. Loose lining segments. (Approximately 1/16" (1.6mm) or more movement.)
- v. Complete lining segment missing. (393.47)



Out-of-Service
Cracks or voids that exceed 1/16" in width.
Cracks that exceed 1 1/2" in length.



Out-of-Service
Portion of lining missing that exposes a fastening device.

* (b) The friction surface of the brake drum or rotor, and the brake friction material are contaminated by oil, grease, or brake fluid. (393.47)

(c) Air Brakes: Lining with a thickness less than 1/4 inch (6mm) or to wear indicator if lining is so marked, measured at the shoe center for drum brakes or less than 1/8 inch (3mm) for disc brakes. (393.47)

(d) Hydraulic & electric brakes: Lining with a thickness 1/16 inch (1.6mm) or less at the shoe center for disc or drum brakes. (393.47)

(7) Missing brake on any axle required to have brakes. (393.42)

COMMERCIAL VEHICLE SAFETY ALLIANCE
NORTH AMERICAN STANDARD OUT-OF-SERVICE CRITERIA
REFERENCE CHARTS

Reference: Item 1. a. of Part II of the *North American Standard Out-of-Service Criteria*

Brake Adjustment: Shall not exceed those specifications contained hereunder relating to "Brake Adjustment Limit". (Dimensions are in inches.)

CLAMP TYPE BRAKE CHAMBER DATA

<u>TYPE</u>	<u>OUTSIDE DIAMETER</u>	<u>BRAKE ADJUSTMENT LIMIT</u>
6	4-1/2 (114mm)	1-1/4 (32mm)
9	5-1/4 (133mm)	1-3/8 (35mm)
12	5-11/16 (145mm)	1-3/8 (35mm)
16	6-3/8 (162mm)	1-3/4 (45mm)
20	6-25/32 (172mm)	1-3/4 (45mm)
24	7-7/32 (184mm)	1-3/4 (45mm)
30	8-3/32 (206mm)	2 (51mm)
36	9 (229mm)	2-1/4 (57mm)

NOTE: A brake found at the adjustment limit is not a defect for the purposes of the 20% rule in 1.a.(5)(b).

'LONG STROKE' CLAMP TYPE BRAKE CHAMBER DATA

<u>TYPE</u>	<u>OUTSIDE DIAMETER</u>	<u>BRAKE ADJUSTMENT LIMIT</u>
12	5-11/16 (145mm)	1-3/4 (45mm)
16	6-3/8 (162mm)	2 (51mm)
20	6-25/32 (172mm)	2 (51mm)
24	7-7/32 (184mm)	2 (51mm)
24**	7-7/32 (184mm)	2-1/2 (64mm)
30	8-3/32 (206mm)	2-1/2 (64mm)

** For 3" maximum stroke type 24 chambers.

NOTE: A brake found at the adjustment limit is not a defect for the purposes of the 20% rule in 1.a.(5)(b).

BOLT TYPE BRAKE CHAMBER DATA

<u>TYPE</u>	<u>OUTSIDE DIAMETER</u>	<u>BRAKE ADJUSTMENT LIMIT</u>
A	6-15/16 (176mm)	1-3/8 (35mm)
B	9-3/16 (234mm)	1-3/4 (45mm)
C	8-1/16 (205mm)	1-3/4 (45mm)
D	5-1/4 (133mm)	1-1/4 (32mm)
E	6-3/16 (157mm)	1-3/8 (35mm)
F	11 (279mm)	2-1/4 (57mm)
G	9-7/8 (251mm)	2 (51mm)

NOTE: A brake found at the adjustment limit is not a defect for the purposes of the 20% rule in 1.a.(5)(b).

ROTOCHAMBER DATA

<u>TYPE</u>	<u>OUTSIDE DIAMETER</u>	<u>BRAKE ADJUSTMENT LIMIT</u>
9	4-9/32 (109mm)	1-1/2 (38mm)
12	4-13/16 (122mm)	1-1/2 (38mm)
16	5-13/32 (138mm)	2 (51mm)
20	5-15/16 (151mm)	2 (51mm)
24	6-13/32 (163mm)	2 (51mm)
30	7-1/16 (180mm)	2-1/4 (57mm)
36	7-5/8 (194mm)	2-3/4 (70mm)
50	8-7/8 (226mm)	3 (76mm)

NOTE: A brake found at the adjustment limit is not a defect for the purposes of the 20% rule in 1.a.(5)(b).

DD-3 BRAKE CHAMBER DATA

<u>TYPE</u>	<u>OUTSIDE DIAMETER</u>	<u>BRAKE ADJUSTMENT LIMIT</u>
30	8-1/8 (206mm)	2-1/4 (57mm)

NOTE: This chamber has three air lines and is found on motorcoaches.

NOTE: A brake found at the adjustment limit is not a defect for the purposes of the 20% rule in 1.a.(5)(b).

WEDGE BRAKE DATA

The combined movement of both brake shoe lining scribe marks shall not exceed 1/8 inch (3.18mm).

* b. Front Steering Axle(s) Brakes

In addition to being included in the 20 percent criterion, the following criteria places a vehicle in an Out-of-Service condition:

- (1) Any inoperative brake on either wheel of any steering axle of any vehicle equipped with steering axle brakes, including the dolly and front axle of a full trailer. This includes tractors required to have steering axle brakes. (393.48(a))

- (2) Mismatch across any power unit steering axle of:

- (a) Air chamber sizes. (393.47(b))

NOTE: Mismatched air chamber size excludes long stroke brake chamber versus regular stroke brake chamber and excludes differences in design type such as type 20 clamp versus type 20 rotor chamber.

- (b) Slack adjuster length. (393.47(c))

- * (3) Brake linings or pads on the steering axle of any power unit:

- (a) Cracked, loose, or missing lining.

- i. Lining cracks or voids of 1/16" (1.6mm) in width observable on the edge of the lining.
 - ii. Portions of a lining segment missing such that a fastening device (rivet or bolt) is exposed when viewing the lining from the edge.
 - iii. Cracks that exceed 1-1/2" (38mm) in length.
 - iv. Loose lining segments (Approximately 1/16" (1.6mm) or more movement).
 - v. Complete lining segment missing. (393.47)

- * (b) The friction surface of the brake drum or rotor, and the brake friction material are contaminated by oil, grease, or brake fluid. (393.47)

- (c) Lining with a thickness less than 3/16 inch (5mm) for a shoe with a continuous strip of lining or 1/4 inch (6mm) for a shoe with two pads for drum brakes or to wear indicator if lining is so marked, or less than 1/8 inch (3mm) for air disc brakes, and 1/16 inch (1.6mm) or less for hydraulic, disc, drum and electric brakes. (393.47)

End of 20% Brake Criterion

c. Spring Brake Chambers

Any non-manufactured holes or cracks in the spring brake housing section of a parking brake. (396.3(a)(1))

d. Trailer Breakaway and Emergency Braking

Inoperable breakaway braking system on trailer(s). (393.43(d))

e. Parking Brake

No brakes on the vehicle or combination are applied upon actuation of the parking brake control, including driveline hand controlled parking brakes. (393.41)

* f. Brake Drums or Rotors (Discs)

* (1) ** Any portion of the drum has any external crack or cracks that open upon brake application. (393.47(a))

* (2) ** Any rotor (disc) with a crack in length of more than 75% of the friction surface and passes completely through the rotor to the center vent from either side or completely through a solid rotor. (393.47(a))

* (3) Any portion of the drum or rotor (discs) missing or in danger of falling away. (393.47(a))

** **NOTE:** Do not confuse short hairline heat check cracks with flexural cracks. (393.47(a))

g. Brake Hose/Tubing

(1) Any damage extending through the outer reinforcement ply. (Rubber impregnated fabric cover is not a reinforcement ply.) (Thermoplastic nylon tube may have braid reinforcement or color difference between cover and inner tube. Exposure of second color is out-of-service.) (393.45(a))

(2) Bulge/swelling when air pressure is applied. (393.45(a))

(3) Audible leak at other than a proper connection. (393.45(a))

(4) Improperly joined such as a splice made by sliding the hose ends over a piece of tubing and clamping the hose to the tube. (393.45(a))

- (5) Damaged by heat, broken, or crimped in such a manner as to restrict air flow. (393.45(a))

h. Low Pressure Warning Device

Low pressure warning device missing, inoperative, or does not operate at 55 psi (379 kPa) and below, or 1/2 of the governor cut-out pressure, whichever is less.

NOTE: If either an audible or visual warning device is working as required, vehicle should not be placed Out-of-Service. (393.51)

i. Air Loss Rate

If an air leak is discovered and the reservoir pressure is not maintained when:

- (1) Governor is cut-in;
- (2) Reservoir pressure is between 80 & 90 psi (551-620 kPa);
- (3) Engine is at idle; and,
- (4) Service brakes are fully applied. (396.3(a)(1))

j. Tractor-Protection System

Inoperable or missing tractor-protection system components including a tractor-protection valve and/or trailer supply valve. (393.43(b))

k. Air Reservoir

Air reservoir security; separated from its original attachment points. (396.3(a)(1))

l. Air Compressor

(Normally to be inspected when readily visible or when conditions indicate compressor problems.)

- (1) Loose compressor mounting bolts. (396.3(a)(1))
- (2) Cracked, broken, or loose pulley. (396.3(a)(1))
- (3) Cracked or broken mounting brackets, braces, or adapters. (396.3(a)(1))

m. Electric Brakes

- (1) Absence of braking action on 20 percent or more of the braked wheels of a vehicle or combination of vehicles. (393.48(a))
- (2) Missing or inoperable breakaway braking device. (393.43(d))

n. Hydraulic Brakes

(Including: Power Assist over Hydraulic and Engine Driven Hydraulic Booster)

(1) No pedal reserve with engine running. (393.40(b))

(2) Master cylinder less than 1/4 full.

NOTE: Normally to be inspected when readily visible or problems are apparent. (396.3(a)(1))

(3) Power assist unit fails to operate. (396.3(a)(1))

(4) Seeping or swelling brake hose(s) under application of pressure. (393.45(a))

(5) Missing or inoperable breakaway braking device. (393.43(d))

(6) Hydraulic hose(s) abraded (chafed) through outer cover-to-fabric layer. (393.45)

(7) Fluid lines or connections restricted, crimped, cracked, or broken. (393.45(a))

(8) Any visually observed leaking hydraulic fluid in the brake system upon full application. (393.45(a))

(9) Hydraulic System: Brake failure light/low fluid warning light on and/or inoperative. (393.51)

o. Vacuum System

(1) Insufficient vacuum reserve to permit one full brake application after engine is shut off. (393.50)

(2) Vacuum hose(s) or line(s) restricted, abraded (chafed) through outer cover-to-cord ply, crimped, cracked, broken, or has collapse of vacuum hose(s) when vacuum is applied. (393.45(a))

* p. Performance-Based Brake Test (PBBT)

Failing to develop a total brake force as a percentage of gross vehicle or combination weight of 43.5 or more on an approved PBBT. (393.52(a)) The out-of-service notice will be satisfactorily completed: 1) If an approved PBBT is available, the vehicle shall be retested on an approved PBBT and achieve a total brake force as a percentage of gross vehicle or combination weight of 43.5 or more; or 2) If an approved PBBT is unavailable, each of the brake fault areas identified on the inspection report shall be inspected and repaired.

NOTE: In the United States, an approved PBBT must meet the FMCSA functional specifications 65 FR 48799, August 9, 2000.

2. **COUPLING DEVICES** (WHEN IN USE)

a. Fifth Wheels: (Lower Coupler Assembly)

(1) Mounting to frame

- (a) More than 20 percent of fasteners on either side missing or ineffective. (393.70)
- (b) Any movement between mounting components. (393.70)
- (c) Any mounting angle iron cracked or broken.

NOTE: Any repair weld cracking, well defined (especially open) cracks in stress or load-bearing areas, cracks through 20 percent or more original welds or parent metal. (393.70)

(2) Mounting plates & pivot brackets

- (a) More than 20 percent of fasteners on either side missing or ineffective. (393.70)
- (b) Any welds or parent metal cracked.

NOTE: Any repair weld cracking, well defined (especially open) cracks in stress or load-bearing areas, cracks through 20 percent or more original welds or parent metal. (393.70)

- (c) More than 3/8 inch (9.5mm) horizontal movement between pivot bracket pin and bracket. (393.70)
- (d) Pivot bracket pin missing or not secured. (393.70)

(3) Sliders

(a) More than 25 percent of latching fasteners, per side, ineffective. (393.70)

(b) Any fore or aft stop missing or not securely attached.

NOTE: A moveable fifth wheel that is secured with vertical pins does not need fore or aft stops. (393.70)

(c) Movement of more than 3/8 inch (9.5mm) between slider bracket and slider base. (393.70)

(4) Operating Handle

Operating handle not in closed or locked position. (393.70)

(5) Fifth Wheel Plate

Cracks in fifth wheel plate. (393.70)

NOTE: Any repair weld cracking, well defined (especially open) cracks in stress or load-bearing areas, cracks through 20 percent or more original welds or parent metal.

EXCEPTIONS: (1) Cracks in fifth wheel approach ramps, and (2) casting shrinkage cracks in the ribs of the body of a cast fifth wheel.

(6) Locking Mechanism

Locking mechanism parts missing, broken, or deformed to the extent that the kingpin is not securely held. (393.70)

b. Upper Coupler Assembly: (Including Kingpin)

(1) Horizontal movement between the upper and lower fifth wheel halves exceeds 1/2 inch (13mm). (393.70)

(2) Kingpin can be moved by hand in any direction.

NOTE: This item is to be used when uncoupled semi trailers are encountered, such as at a terminal inspection, and it is impossible to check item (1) above. Kingpins in coupled vehicles are to be inspected using item (1) above and items (3) and (4) below. Vehicles are not to be uncoupled. (393.70)

(3) Kingpin not properly engaged. (393.70)

(4) Any semi trailer with a bolted upper coupler having fewer effective bolts than shown in the following table. MINIMUM TOTAL QUANTITY OF BOLTS. (Total minimum quantity of bolts must be equally divided with 1/2 on each side of the coupler.) (393.70)

BOLT SIZE

1/2 inch (13mm)

5/8 inch (16mm) or larger

10 - (5 each side) 8 - (4 each side)

NOTE: This BOLT SIZE table applies to trailers having a 68,000-lbs. maximum gross vehicle weight rating (GVWR). Such trailers are typically used in tractor-semi trailer combinations with a maximum gross combination weight rating (GCWR) of 80,000-lbs. It is based on Truck Trailer Manufacturers Association Technical Bulletin No. 110 (TB 110) "Upper Coupler Attachment Bolts for Trailers with Repositionable Upper Couplers (4/1/98)". Table 1 in TB 110 also has specifications covering trailers with an 85,000 lbs. and 105,000 lbs. GVWR.

(5) Any welds or parent metal cracked.

NOTE: Any repair weld cracking, well defined (especially open) cracks in stress or load-bearing areas, cracks through 20 percent or more original welds or parent metal. (393.70)

c. Pintle Hooks

Mounting and Integrity

- (1) Loose mounting, missing or ineffective fasteners, or insecure latch.

NOTE: A fastener is not considered missing if there is an empty hole in the device but no corresponding hole in the frame and vice versa. (Trailer - 393.70(c), Driveaway - 393.71)

- (2) Cracks anywhere in the pintle hook assembly including mounting surface and frame cross member. (Trailer - 393.70(c), Driveaway - 393.71)
- (3) Any welded repairs to the pintle hook assembly. (Trailer - 393.70(c), Driveaway - 393.71)
- (4) Section reduction visible when coupled.

NOTE: No part of the horn should have any section reduced by more than 20 percent. If wear can be seen when the hook and eye are coupled it is possible that either this condition or that described below in “d.(4)” exists. (Trailer - 393.70(c), Driveaway - 393.71)

d. Drawbar Eye

Mounting and Integrity

- (1) Any cracks in attachment welds or drawbar eye. (Trailer - 393.70(c), Driveaway - 393.71)
- (2) Any missing or ineffective fasteners. (Trailer - 393.70(c), Driveaway - 393.71)
- (3) Any welded repairs to the drawbar eye. (Trailer - 393.70(c), Driveaway - 393.71)
- (4) Section reduction visible when coupled.

NOTE: No part of the eye should have any section reduced by more than 20 percent. If wear can be seen when the hook and eye are coupled, it is probable that either this condition or that described above in “c.(4)” exists. (Trailer - 393.70(c), Driveaway - 393.71)

e. Drawbar/Tongue

(1) Slider (power/manual)

- (a) Ineffective latching mechanism. (Trailer - 393.70(c), Driveaway - 393.71)
- (b) Missing or ineffective stop. (Trailer - 393.70(c), Driveaway - 393.71)
- (c) Movement of more than 1/4 inch (6mm) between the slider and housing. (Trailer - 393.70(c), Driveaway - 393.71)
- (d) Any leaking air or hydraulic cylinders, hoses or chambers (other than slight oil weeping normal with hydraulic seals). (Trailer 393.70(c), Driveaway - 393.71)

(2) Integrity

- (a) Any cracks. (Trailer - 393.70(c), Driveaway - 393.71)
- (b) Movement of 1/4 inch (6mm) between sub frame and drawbar at point of attachment. (Trailer - 393.70(c), Driveaway - 393.71)

f. Safety Devices

- (1) Missing. (Trailer - 393.70(d), Driveaway - 393.71(h)(10))
- (2) Unattached or incapable of secure attachment. (Trailer - 393.70(d), Driveaway - 393.71(h)(10))
- (3) Improper repairs to chains and hooks including welding, wire, small bolts, rope and tape. (Trailer - 393.70(d), Driveaway - 393.71(h)(10))
- (4) Chains or wire ropes: Damaged or defective to the same extent as the criteria used for chain or wire rope defects described in items 7. h. (1) and 7. h. (2) – “Safe Loading/Tiedowns”. (Trailer - 393.70(d), Driveaway - 393.71(h)(10))

- g. Saddle-mounts (Method of Attachment)
 - (1) Any missing or ineffective fasteners. (393.71)
 - (2) Loose mountings. (393.71)
 - (3) Any cracks or breaks in a stress or load-bearing member. (393.71)
 - (4) Horizontal movement between upper and lower saddle mount halves exceeds 1/4 inch (6mm). (393.71)
- h. Full Trailer (Double Ring, Ball-Bearing Turntable)
 - (1) Mounting – Top and Bottom
 - (a) Top flange has less than 6 effective bolts. (393.70(c))
 - (b) Bottom flange has less than 6 effective bolts. (393.70(c))
 - (c) Twenty percent or more of original welds (or repaired original welds), or parent metal cracked. (393.70(c))
 - (2) Wear
 - (a) Upper flange half touching lower flange half. (393.70(c))
 - (b) Cracked flanges. (393.70(c))

3. EXHAUST SYSTEM

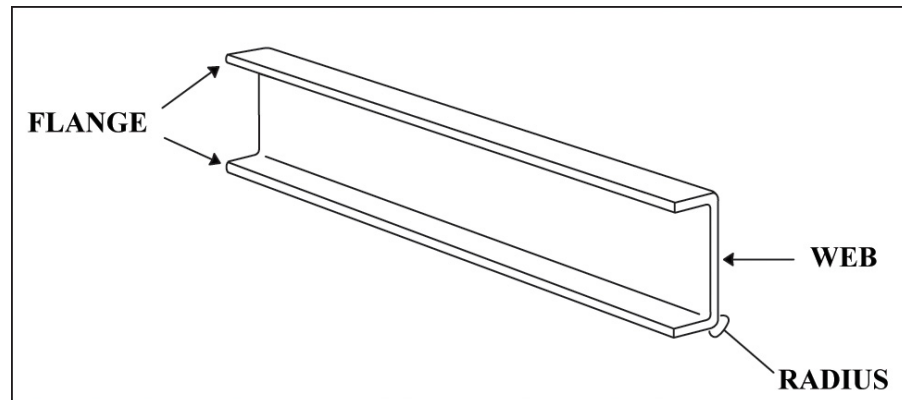
- a. Any exhaust system, other than that of a diesel engine, leaking at a point forward of or directly below the driver/sleeper compartment and when the floor pan is in such condition as to permit entry of exhaust fumes. (393.83(e))
- b. Any bus exhaust system leaking or discharging under the chassis more than 6 inches (152mm) forward of the rear most part of the bus when powered by a gasoline engine, or more than 15 inches (381mm) forward of the rear most part of the bus when powered by other than a gasoline or diesel engine. (393.83(d))
- c. No part of the exhaust system of any motor vehicle shall be so located as to be likely to result in burning, charring, or damaging the electrical wiring, the fuel supply, or any combustible part of the motor vehicle. (393.83(a))

*** 4. FRAME**

*** a. Frame Members**

- (1) Any cracked, loose, sagging, or broken frame siderail permitting shifting of the body onto moving parts or other condition indicating an imminent collapse of the frame. (393.201(a))
- (2) Any cracked, loose, or broken frame member adversely affecting support of functional components such as steering gear, fifth wheel, engine, transmission, body parts and suspension. (393.201(a))
- (3) One and one-half inches (38mm) or longer crack in frame siderail web which is directed toward bottom flange. (393.201(a))
- (4) Any crack extending from the frame siderail web around the radius and into the bottom flange. (393.201(a))
- (5) One inch (25mm) or longer crack in siderail bottom flange. (393.201(a))

NOTE: Items (1) and (2) above, apply to all buses, including those having unitized (monocoque) construction. Items (3) and (4) apply only to buses having a body-on-chassis design, such as most school buses.



b. Tire and Wheel Clearance

Any condition, including loading, that causes the body or frame to be in contact with a tire or any part of the wheel assemblies, at the time of inspection. (396.3(a)(1))

5. **FUEL SYSTEM**

a. **Liquid Fuels**

- (1) A fuel system with a dripping leak at any point (including refrigeration or heater fuel systems). (393.67 – Fuel Tank Leak, 396.3(a)(1) – Leak at Other Than Fuel Tank)
- (2) A fuel tank not securely attached to the vehicle.

NOTE: Some fuel tanks use spring or rubber bushings to permit movement. (393.65)

b. **Gaseous Fuels**

Compressed Natural Gas (CNG), Liquefied Petroleum Gas (LPG) and Liquefied Natural Gas (LNG)

OCCUPATIONAL SAFETY NOTE: Personnel must exercise extreme caution whenever checking a gaseous fuel system for leaks. Any possibility of creating sparks, static electricity, friction, etc. must be avoided, as they could cause a fire or explosion.

OCCUPATIONAL SAFETY NOTE: Vehicles with leaking gaseous fuel systems must be parked carefully. Gases escaping from CNG and LNG systems will rise. If the vehicle is parked inside a building or under a canopy, roof or similar cover, combustible gasses can collect beneath the ceiling. Escaping LPG falls and can form a “pool” of combustible gas near the ground and displaces air including oxygen. LPG and liquid LNG will flow into open drains. Combustible gases can explode when ignited by an open flame or spark.

(1) **CNG or LPG**

- (a) Any fuel leakage from the CNG or LPG system detected by smell and verified by either a bubble test using non ammonia, non-corrosive soap solution or a flammable gas detection meter.
- (b) Any fuel leakage from the CNG or LPG system detected audibly and verified by either a bubble test using non-ammonia, non-corrosive soap solution or flammable gas detection meter.

NOTE: Verification is needed to ensure that the sound is not either internal to the fuel system (such as gas flowing in a pressure regulator, or pressure equalizing between manifolded tanks) or a leak in the air brake system.

- (c) Any fuel leakage from the CNG or LPG system detected visibly (evidence such as ice buildup at fuel system connections and fittings) and verified by either a bubble test using non-ammonia, non-corrosive soap solution or a flammable gas detection meter.

NOTE: Some brief fuel leakage or decompression may occur during refueling, causing temporary frosting of CNG or LPG fuel system parts. If the vehicle has been refueled shortly before inspection, care must be taken to distinguish these temporary frosting occurrences from actual leaks.

(2) LNG

OCCUPATIONAL SAFETY NOTE: LNG is a cryogenic material and presents a potential safety hazard due both to the extremely cold temperature of its liquid and the flammability of its vapor. Personnel inspecting such systems should exercise utmost caution including the wearing of proper eye protection, gloves and clothing.

NOTE: LNG liquid and vaporized gas is odorless and undetectable by the human sense of smell. Frost buildup is not necessarily evidence of leakage. Many components of LNG fuel systems are extremely cold and will exhibit an even coat of frost produced by moisture in the surrounding air condensing and freezing on them.

- (a) A cloud of water vapor coming from any component of the fuel system.

NOTE: It is normal, particularly in humid conditions, for water vapor to collect around many portions of a LNG fuel system.

- (b) Any leak detected by a methane detection meter.
- (c) Dripping liquid that boils or vaporizes in the air.

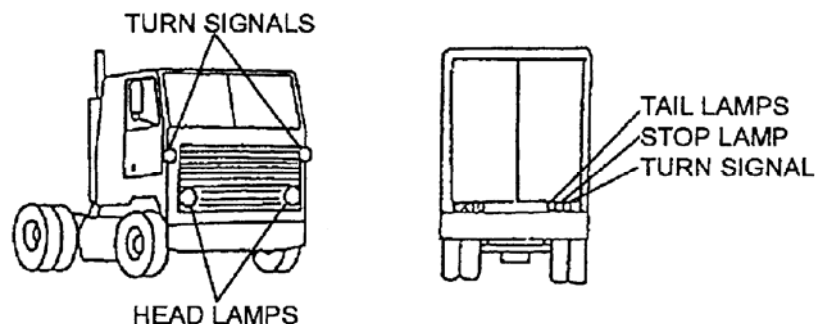
6. **HEADLAMPS, TAIL LAMPS, STOP LAMPS, TURN SIGNALS AND LAMPS / FLAGS ON PROJECTING LOADS**

a. When Lights Are Required

- (1) Headlamps - The single vehicle or towing vehicle does not have at least one head lamp operative on low beam. (393.24(a), 393.17 – Driveaway/towaway, 393.9 - Inoperable/obscured)
- (2) Lamps on rear - Bus, truck, truck tractor, and towed vehicle (including driveaway/towaway operations) not having at least one steady burning tail lamp on the rear of the rear most vehicle visible from 500 feet (152m). (393.25(b), 393.9 - Inoperable/obscured)
- (3) Lamps on projecting loads - There is not at least one operative steady burning lamp on the rear of loads projecting more than four feet beyond the vehicle body, visible from 500 feet (152m). (393.11, 393.17 – Driveaway/towaway, 393.9 – Inoperable/obscured)

b. At Anytime – Day or Night

- (1) Does not have at least one operative stop lamp on the rear of a single unit vehicle or the rear of the rear most vehicle of a combination of vehicles visible at 500 feet (152m). (393.25(f), 393.17 Driveaway/towaway, 393.9 – Inoperable/obscured)
- (2) Does not have operative turn signals visible on each side of the rear of a single unit vehicle or the rear of the rear most vehicle of a combination of vehicles. (Truck tractors - unless the turn signals on the front are so constructed (double faced) and located to be visible to passing drivers, two turn signals on the rear of the cab, one at each side.) (393.9 – Inoperable/obscured, 393.11 - Missing)
- (3) Does not have at least one required flag on the rear of loads projecting more than four feet beyond the vehicle body. (393.87)



*** 7. SAFE LOADING/TIE-DOWNS**

- a. Part(s) of a vehicle or condition of loading such that the spare tire or any part of the load, cargo or dunnage can fall onto the roadway. (392.9, 393.100(b))
- b. When the aggregate working load limit of the securement devices being used is less than ½ the weight of the cargo being secured. (393.106(d))

NOTE: Equivalent means of securement (e.g. vehicle structures, dunnage, dunnage bags, shoring bars, etc.) may be used to comply; not all cargo must be “tied down” with chains, webbing, wire rope, cordage, etc. (393.106(b))

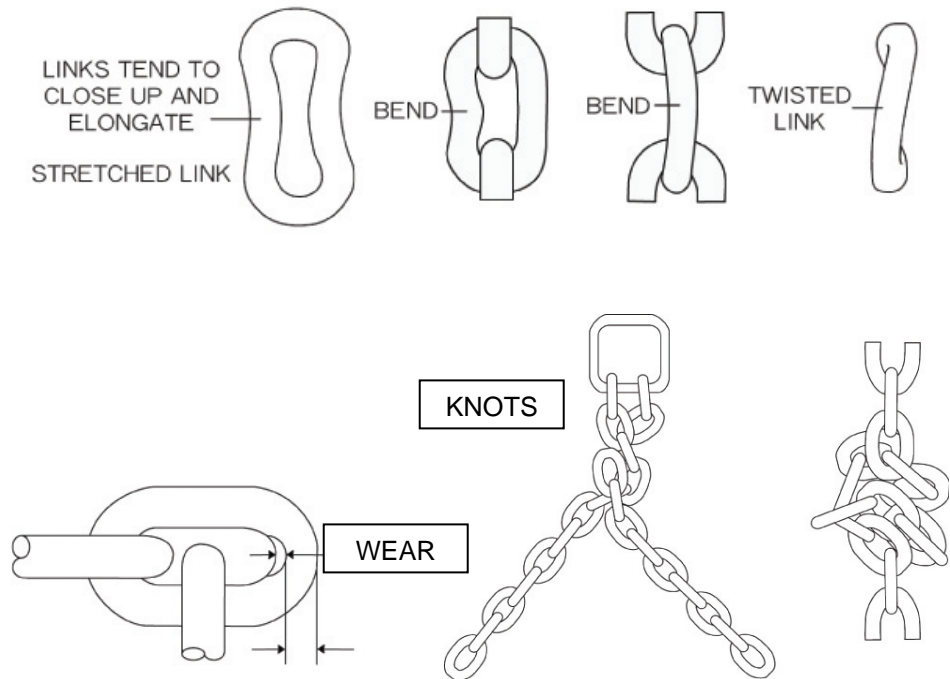
- c. No edge protection. (393.104(f)(4))

NOTE: Out-of-Service only when the required tie-down has evidence of damage resulting from unprotected contact with an article of cargo.

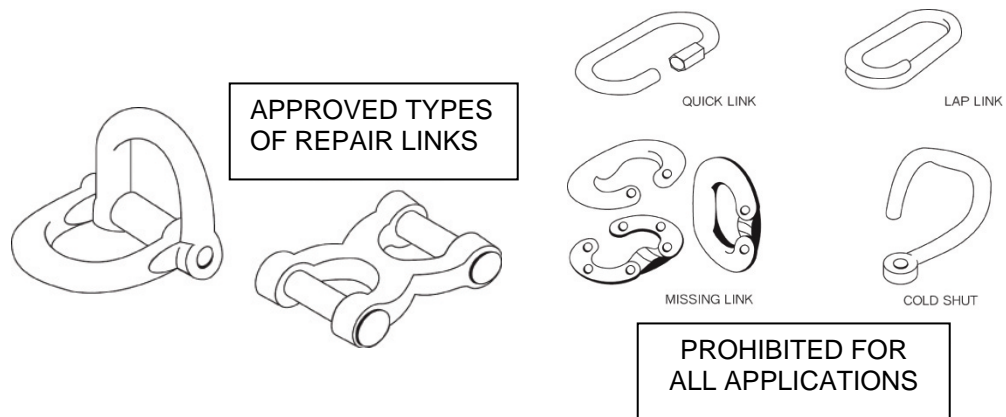
NOTE: See items 7. h. (1) through 7. h. (5) for tie-down defect classification.

- d. Articles of cargo that are likely to roll are not restrained by chocks, wedges, a cradle or other equivalent means to prevent rolling. (393.106(c)(1) for all types of cargo including light-weight vehicles, 393.130(a) for heavy vehicles, equipment and machinery.)
- e. Articles or cargo placed beside each other and secured by transverse tie-downs are not in direct contact with each other and are not prevented from shifting towards each other while in transit. (393.106(c)(2))
- f. Articles or cargo not blocked or positioned to prevent movement in the forward direction by a headerboard, bulkhead, other cargo that is positioned to prevent movement, or other appropriate blocking devices, is not secured by at least:
 - (1) One tie-down for articles 5 feet (1.52m) or less in length, and 1,100 pounds (500kg) or less in weight. (393.110(b)(1))
 - (2) Two tie-downs if the article is:
 - (a) 5 feet (1.52m) or less in length and more than 1,100 pounds (500kg) in weight (393.110(b)(2)(i)); or
 - (b) Longer than 5 feet (1.52m) but less than or equal to 10 feet (3.04m) in length, irrespective of the weight. (393.110(b)(2)(ii))

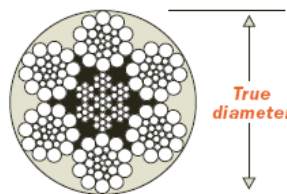
- (3) Two tie-downs if the article is longer than 10 feet (3.04m) and one additional tie-down for every 10 feet (3.04m) of article length, or fraction thereof, beyond the first 10 feet (3.04m) of length. (393.110(b)(3))
- g. Article(s) or cargo that is blocked, braced or immobilized to prevent movement in the forward direction by a headerboard, bulkhead, other articles which are adequately secured or by an appropriate blocking or immobilization method, is not secured by at least one tie-down for every 10 feet (3.04m) of article length, or fraction thereof. (393.110(c))
- * h. When any of the required type and number of tie-downs are defective or loose. (393.104(b) – Defective, 393.104(f) – Loose)
- * (1) Chain Defects (Found in the load-bearing portion of the tiedown.)
 - (a) Broken, cracked, twisted, bent, or stretched links. (393.104(b))
 - (b) Containing nicks, gouges, abrasions, excessive wear, or knots. (393.104(b))
 - (c) Any weld(s) on chain, except the original chain weld in each link. (393.104(f)(2))



NOTE: Repairs. Links of the clevis variety, having a strength equal to or greater than the nominal chain are acceptable.

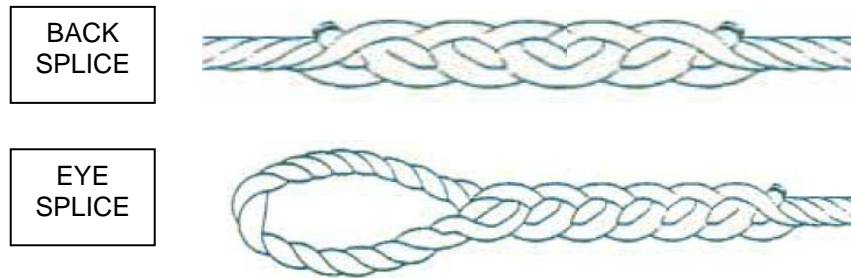


- * (2) Wire Rope Defects (Found in the load-bearing portion of the tiedown.)
 - (a) Kinks, bird caging, popped core, or knots in the working section of the wire rope. (393.104(b), 393.104(f)(1))
 - (b) Discoloration from excessive heat or electric arc in the eye or main body of the wire rope. (393.104(b))
 - (c) Corrosion with pitting of the external or internal wires. (393.104(b))
 - * (d) More than 11 broken wires in 6 diameters of length. For example: with 1/2 inch (13mm) wire rope, over 11 broken wires in (6 x 1/2) or 3 inches in length (6 x 13 = 78mm). (393.104(b))



- (e) More than three broken wires in any one strand. (393.104(b))
- (f) More than two broken wires at the end connection or fitting. (393.104(b))

*** NOTE:** Repairs. Wire rope used in tie-down assemblies shall not be repaired or spliced. (Back splices and eye splices are acceptable.)



*** NOTE:** Wire rope defects.



- * (3)** Cordage (fiber rope) Defects (Found in the load-bearing portion of the tiedown.)
- (a) Burned or melted fibers except on heat-sealed ends. (393.104(b))
 - (b) ** Evidence of excessive wear in exterior or interior fibers. (393.104(b))
 - (c) ** Any evidence of loss of strength, such as a marked reduction in diameter. (393.104(b))
 - (d) Ineffective knots formed for the purpose of connecting or repairing binders. (393.104(f)(1))

**** NOTE:** Effective diameter of cordage reduced by 20 percent is excessive. Repairs: Cordage used in tie-down assemblies shall not be repaired. (Separate lengths of cordage properly spliced together are not considered repairs.)



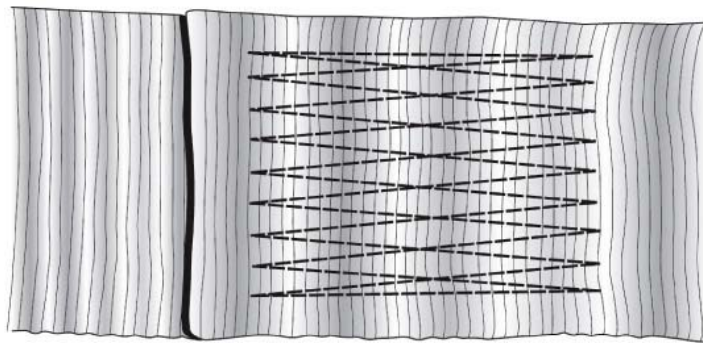
CHAFED AND FRAYED YARNS; REMOVED FROM SERVICE



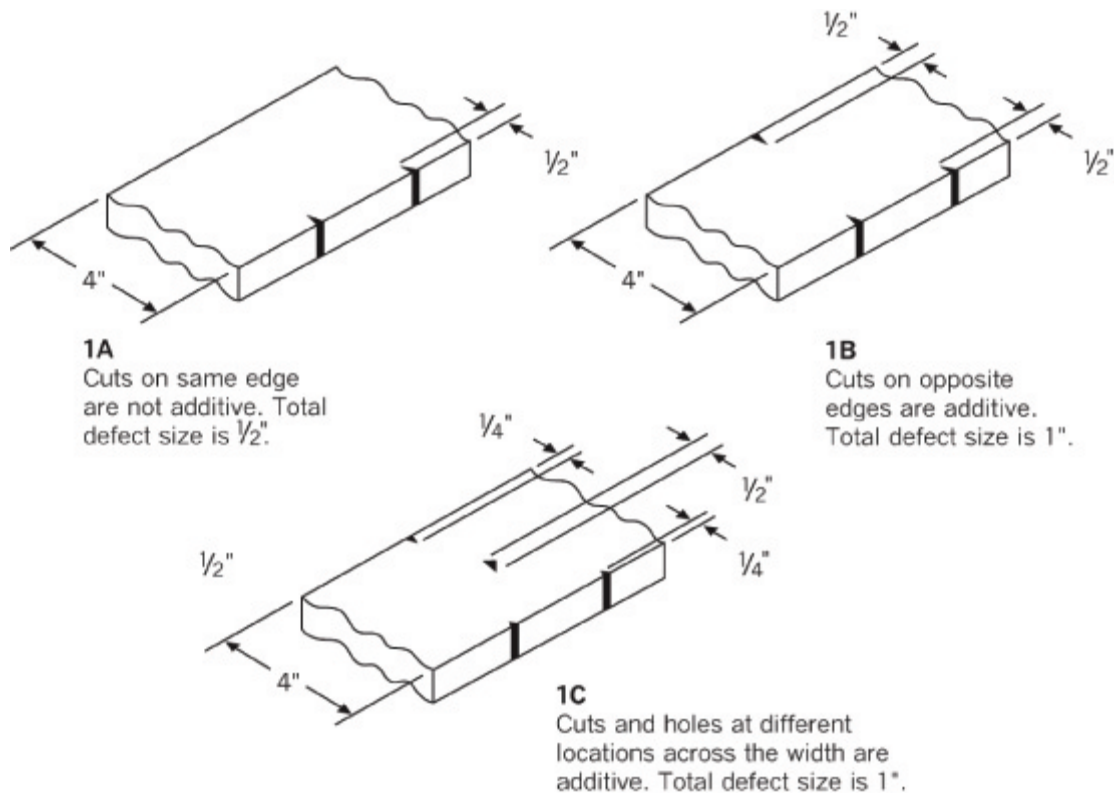
MINOR ABRASION OR CHAFING; OK TO CONTINUE USE

- * (4) Synthetic Webbing Defects (Found in the load-bearing portion of the tiedown.)
 - (a) The tie-down contains cut(s), burn(s), and/or hole(s) through the webbing which total more than that shown in the Defect Classification Table. (393.104(b))
 - * (b) The tie-down contains separation of its load carrying stitch pattern(s) in excess of 1/4 of the total stitch area. (393.104(b))

* Graphic of one example of a load bearing stitch pattern at hook end.



- (c) The tie-down contains any fitting, tensioning device, or hardware which is broken, obviously sprung, bent, twisted, or contains visible cracks or significant nicks or gouges. (393.104(b))
- (d) The tie-down contains a knot, repair, splice, or any other apparent defect (i.e. crushed areas, damaged loop ends, severe abrasions, etc.) (393.104(b), 393.104(f)(2))



DEFECT CLASSIFICATION TABLE
Total Defect Size

<u>Web Size</u> Inches (mm)	<u>Out-of-Service Range</u> Inches (mm)
4 (100)	Larger than $\frac{3}{4}$ (19)
3 (75)	Larger than $\frac{5}{8}$ (16)
2 (50)	Larger than $\frac{3}{8}$ (10)
1.75 (45)	Larger than $\frac{3}{8}$ (10)

All cut(s), burn(s), and/or hole(s) through the webbing are additive across the width of the strap face for its entire effective length. But only one defect is additive for any specific width.

NOTE: Repairs. Webbing used in tie-down assemblies shall not be repaired or spliced.

- * (5) Steel Strapping (Found in the load-bearing portion of the tiedown.)
 - (a) Steel strappings over one inch (25mm) in width not having at least two pair of crimps in each seal. (393.104(e))
 - (b) Steel strappings arranged in an end-over-end lap joint not sealed with at least two seals. (393.104(e))
 - (c) Obviously damaged or distorted steel strappings. (393.104(b))
- (6) Fitting or Attachment Defects
 - (a) Obvious reduction of section through wear or corrosion. (393.104(b))
 - (b) Obviously distorted or stretched load binders and fittings. (393.104(b))
 - (c) Hooks opened in the throat beyond the original parallel throat opening. (393.104(b))
 - (d) Obvious twisting out of the plane of the fitting. (393.104(b))
 - (e) Welding or discoloration from excessive heat. (393.104(b))
 - NOTE:** Some winches are designed to be welded to the truck bed.
 - (f) Any visible cracks. (393.104(b))
 - (g) Any slippage detectable at a wire rope "cable clamp". (393.104(f)(2))
 - NOTE:** End fittings may be replaced with clevis type.
- (7) Anchor Point Defects
 - (a) Broken or cracked side or pocket rails, supports, or welds. (393.104(c))
 - (b) Rails bent or distorted where hooks or fittings attach. (393.104(c))
 - (c) Floor rings nicked, gouged, worn, twisted, bent, stretched, or with broken welds. (393.104(c))

- i. Logs not secured per the specific securement requirements for this commodity type. (393.116)
- j. Dressed lumber or similar building products not secured per the specific securement requirements for this commodity type. (393.118)
- k. Metal coils not secured per the specific securement requirements for this commodity type. (393.120)
- l. Paper rolls not secured per the specific securement requirements for this commodity type. (393.122)
- m. Concrete pipe not secured per the specific securement requirements for this commodity type. (393.124)
- n. Intermodal containers not secured per the specific securement requirements for this commodity type. (393.126)
- o. Automobiles, light trucks and vans not secured per the specific securement requirements for this commodity type. (393.128)
- p. Heavy vehicles, equipment and machinery not secured per the specific securement requirements for this commodity type. (393.130)
- q. Flattened or crushed vehicles not secured per the specific securement requirements for this commodity type. (393.132)
- r. Roll-on/roll-off or hook lift containers not secured per the specific securement requirements for this commodity type. (393.134)
- s. Large boulders not secured per the specific securement requirements for this commodity type. (393.136)

8. STEERING MECHANISM

a. Steering Wheel Free Play

(See Chart: When any of these values - inch movement or degrees - are met or exceeded, vehicle shall be placed Out-of-Service.) (393.209(b))

For power steering systems, engine must be running.

<u>Steering Wheel Diameter</u> <u>Movement 45°</u>	<u>Manual System Movement 30°</u>	<u>Power System</u>
16" (41cm)	4-1/2" (11.5cm)(or more)	6-3/4" (17cm)(or more)
18" (46cm)	4-3/4" (12cm)(or more)	7-1/8" (18cm)(or more)
19" (48cm)	5" (13cm)(or more)	7-1/2" (19cm)(or more)
20" (51cm)	5-1/4" (13cm)(or more)	7-7/8" (20cm)(or more)
21" (53cm)	5-1/2" (14cm)(or more)	8-1/4" (21cm)(or more)
22" (56cm)	5-3/4" (15cm)(or more)	8-5/8" (22cm)(or more)

For power systems, if steering wheel movement exceeds 45 degrees before steering axle tires move, proceed as follows: Rock steering wheel left to right between points of power steering valve resistance. If that motion exceeds 30 degrees (or the inch movement values shown for manual steering) vehicle shall be placed Out-of-Service. This test is to differentiate between excessive lash and power systems designed to avoid providing steering assistance when the steering wheel is turned while the truck is motionless (not moving forward or backward).

b. Steering Column

- (1) Any absence or looseness of U-bolt(s) or positioning part(s). (393.209(c))
- (2) Obviously repair-welded universal joint(s). (393.209(d))
- (3) Steering wheel not properly secured. (393.209(a))

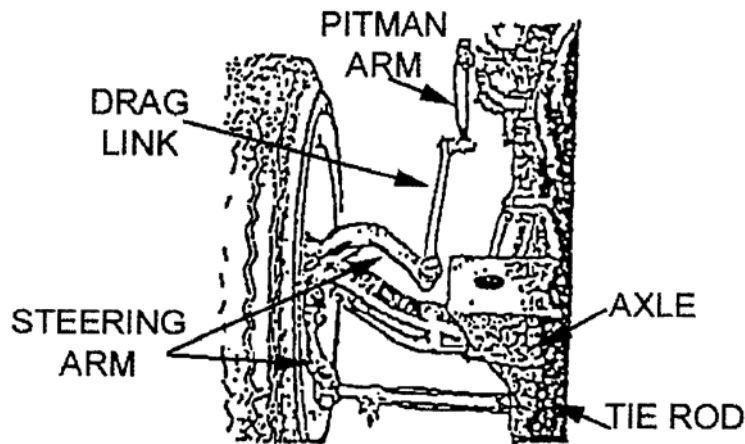
c. Front Axle Beam and All Steering Components other than Steering Column (Including Hub)

- (1) Any crack(s). (396.3(a)(1))
- (2) Any obvious welded repair(s). (396.3(a)(1))

- d. Steering Gear Box
 - (1) Any mounting bolt(s) loose or missing. (393.209(d))
 - (2) Any crack(s) in gear box or mounting brackets. (393.209(d))
 - (3) Any obvious welded repair(s). (396.3(a)(1))
 - (4) Any looseness of the yoke-coupling to the steering gear input shaft. (393.209(d))
- e. Pitman Arm
 - (1) Any looseness of the pitman arm on the steering gear output shaft. (393.209(d))
 - (2) Any obvious welded repair(s). (396.3(a)(1))
- f. Power Steering

Auxiliary power assist cylinder loose. (393.209(e))
- g. Ball and Socket Joints
 - (1) Any movement under steering load of a stud nut. (396.3(a)(1))
 - (2) Any motion, other than rotational, between any linkage member and its attachment point of more than 1/8 inch (3mm) measured with hand pressure only. (393.209(d))
 - (3) Any obvious welded repair(s). (393.209(d))
- h. Tie Rods and Drag Links
 - (1) Loose clamp(s) or clamp bolt(s) on tie rods or drag links. (396.3(a)(1))
 - (2) Any looseness in any threaded joint. (396.3(a)(1))
- i. Nuts

Loose or missing on tie rods, pitman arm, drag link, steering arm, or tie rod arm. (396.3(a)(1))



j. Steering System

Any modification or other condition that interferes with free movement of any steering component. (393.209(d))

k. C-Dolly

- (1) Missing or inoperable steering locks. (396.3(a))
- (2) Steering not centered in the "zero" locked position. (396.3(a))

*** 9. SUSPENSION**

* a. Axle Parts/Members

- (1) Any U-bolt(s) or other spring to axle clamp bolt(s) cracked, broken, loose, or missing. (393.207(a))
- * (2) Any axle, axle housing, spring hanger(s), or other axle positioning part(s) cracked, broken, loose, or missing resulting in shifting of an axle from its normal position. (393.207(a))

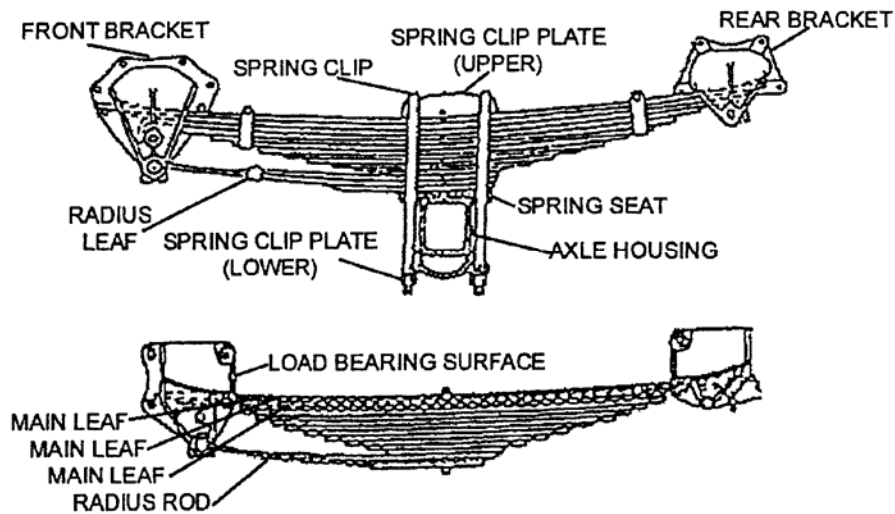
NOTE: After a turn, lateral axle displacement is normal with some suspensions including composite springs mounted on steering axles.

b. Spring Assembly

- (1) One-fourth or more of the leaves in any spring assembly broken. (393.207(c))
- (2) Any leaf or portion of any leaf in any spring assembly is missing or separated. (393.207(c))
- (3) Any broken main leaf in a leaf spring. (393.207(c))

NOTES:

1. Any leaf of leaf spring assembly is a main leaf if it extends, at both ends, to or beyond:
 - a. The load bearing surface of a spring hanger or equalizer.
 - b. The spring end cap or insulator box mounted on the axle.
 - c. A spring eye, further: Any leaf or a helper spring assembly is a helper main leaf if it extends, at both ends, to or beyond the load bearing surface of its contact pad, hanger, or equalizer.
2. The radius rod leaf, in springs having such a leaf, has the same function as the torque or radius components referenced in item 9.
 - d. - "Torque, Radius, Tracking or Sway Bar Components" and should be treated as such a component for purposes of Out-of-Service. (393.207(c))



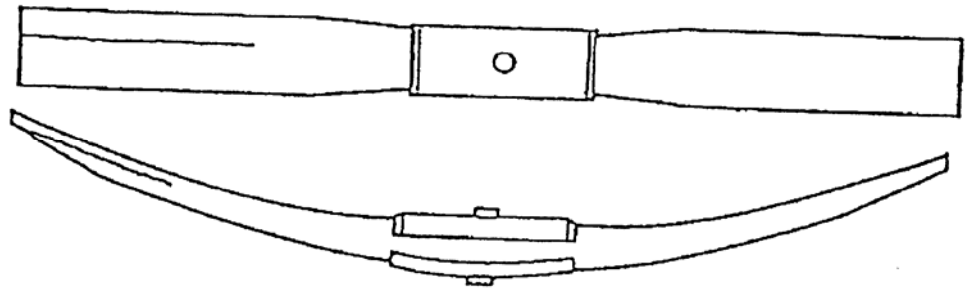
- (4) Coil spring broken. (393.207(d))
- (5) Rubber spring missing. (393.207(a))
- (6) One or more leaves displaced in a manner that could result in contact with a tire, rim, brake drum, or frame. (393.207(c))
- (7) Broken torsion bar spring in torsion bar suspension. (393.207(e))
- (8) Deflated air suspension (i.e. system failure, leak, etc.). (393.207(f))

c. Composite Springs

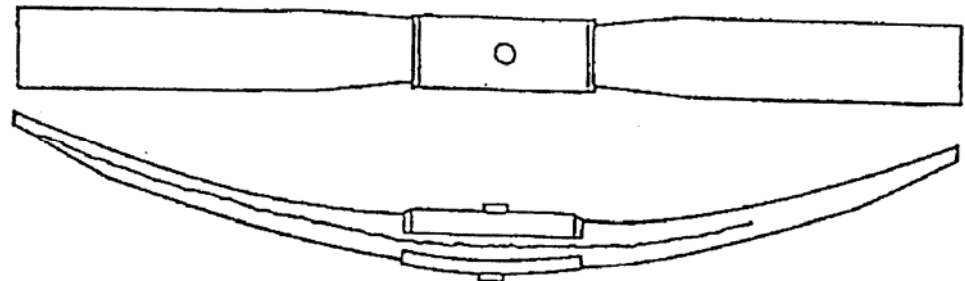
- (1) Intersecting cracks of any length. (393.207(c))
- (2) A crack that extends beyond 3/4 the length of the spring. (393.207(c))

NOTE: A crack is a separation in any axis which passes completely through the spring.

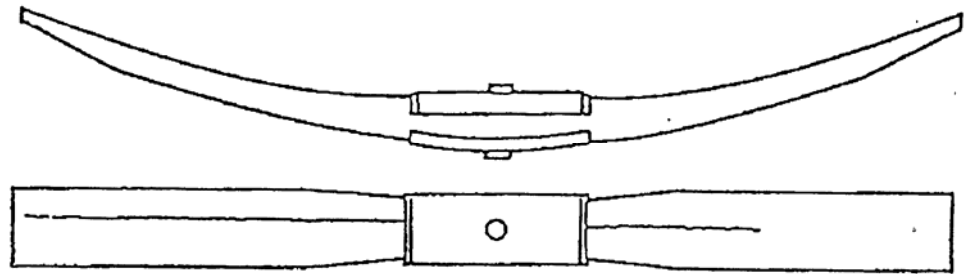
Intersecting cracks of any length.



Side to side crack extending beyond 3/4 of the length of the spring. (A crack that extends beyond 3/4 the length of the spring.)

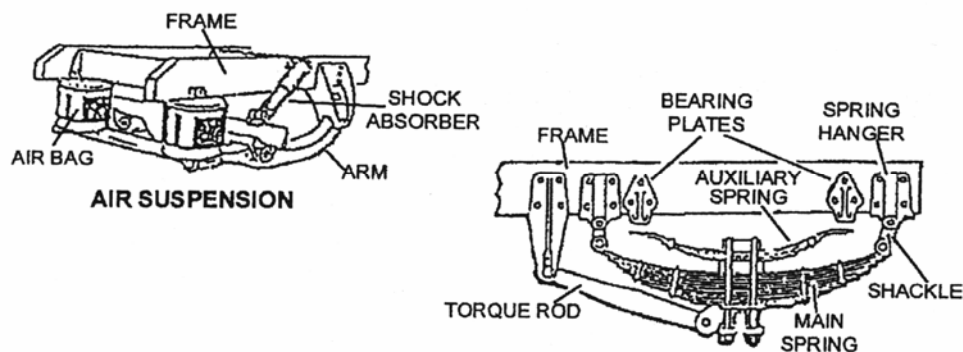


Top to bottom crack extending beyond 3/4 of the length of the spring. (A crack that extends beyond 3/4 the length of the spring.)



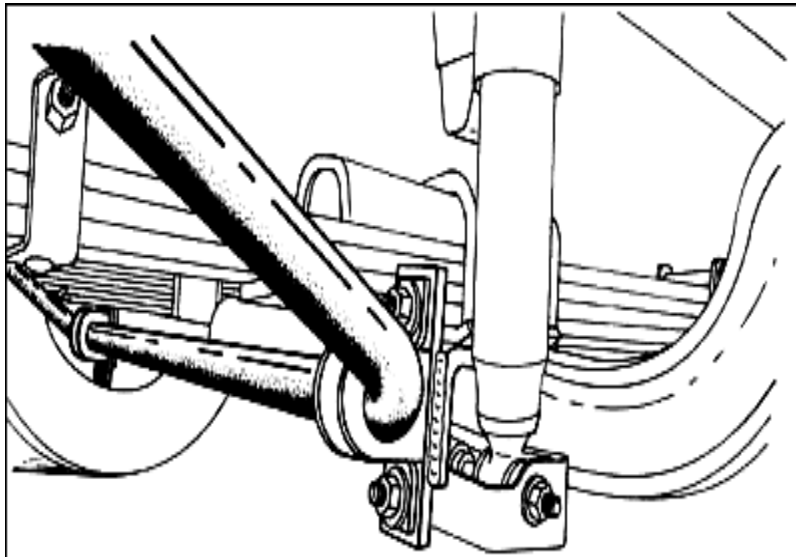
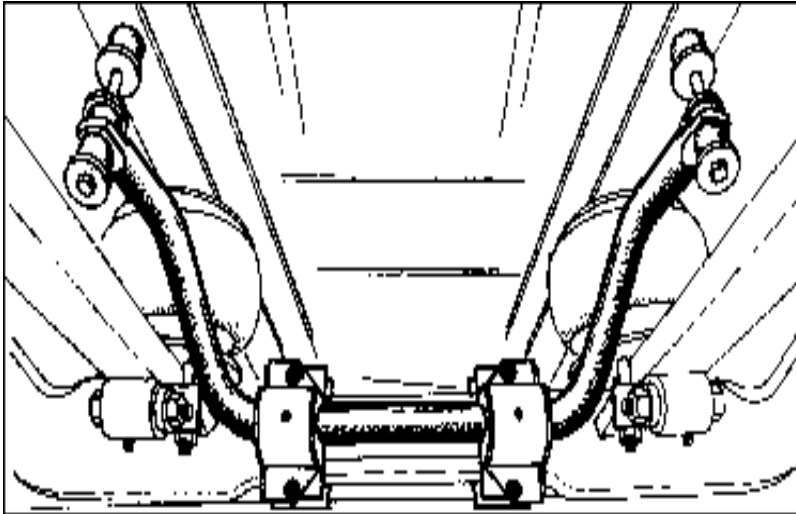
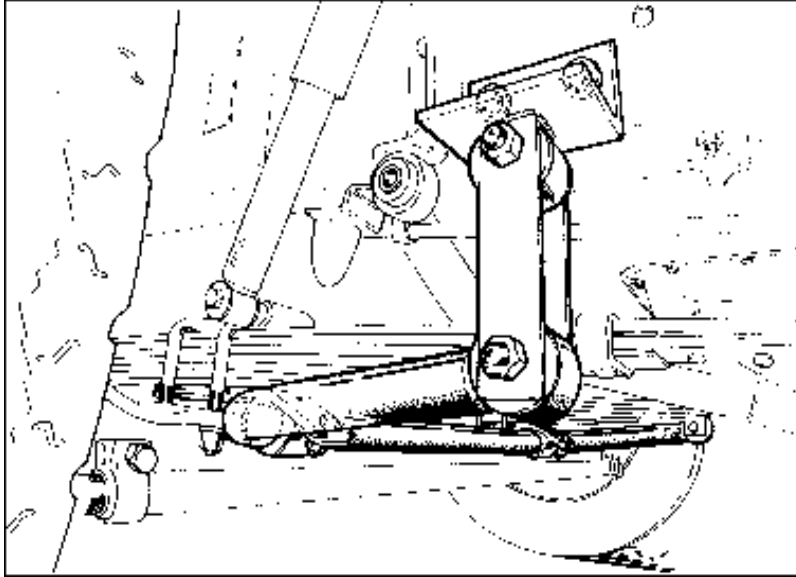
d. Torque, Radius, Tracking or Sway Bar Components

Any part of a torque, radius, or tracking component assembly or any part used for attaching same to the vehicle frame or axle that is cracked, loose, broken, or missing (including spring leaves used as a radius or torque rod, missing bushings but not loose bushings in torque, track rods or sway bars.) (393.207(a))



* e. Adjustable Axle

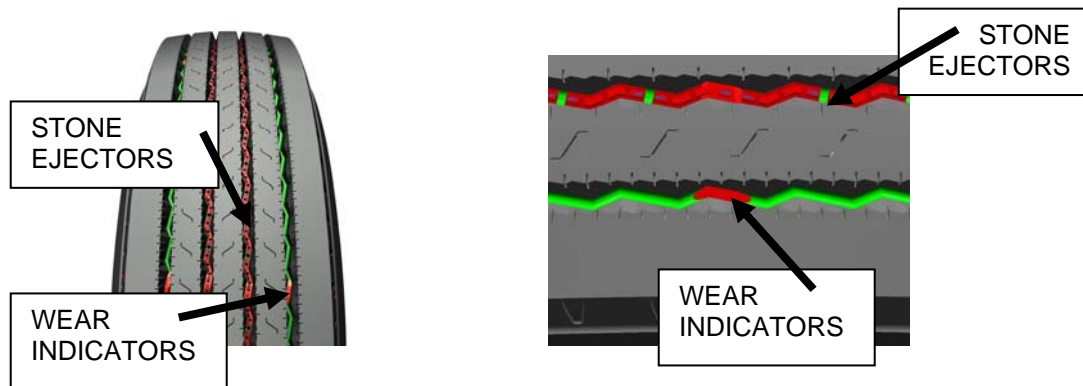
Adjustable axle assembly (sliding sub frame) with more than one-fourth of the locking pins missing or not engaged. (393.207(b))



*** 10. TIRES**

*** a. Any Tire on Any Front Steering Axle(s) of a Power Unit**

- * (1) With less than 2/32 inch (1.6mm) tread when measured in any two adjacent major tread grooves (typically any groove containing a tread wear indicator) at any location on the tire. (Measurements should not be made on stone ejectors or tread wear indicators). (393.75(b))



- * (2) When any part of the belt material, breaker strip or casing ply is showing in the tread. (393.75(a))
- * (3) When sidewall is cut, worn, or damaged to the extent that the steel or fabric ply cord is exposed. (393.75(a))
- * (4) Labeled “Not For Highway Use” or carrying other markings that indicate excluded use on steering axles. (396.3(a)(1))
- * (5) Visually observable bump, bulge, or knot apparently related to tread or sidewall separation. (393.75(a))

* **EXCEPTION:** A bulge (due to a repair) of up to 3/8 inch (1cm) in height is allowed. This bulge may sometimes be identified by a blue triangular label in the immediate vicinity.

- (6) Tire has noticeable (e.g. can be heard or felt) leak, or has 50% or less of the maximum inflation pressure marked on the tire sidewall. (393.75(a)(3))

NOTE: Measure tire air pressure only if there is evidence the tire is under-inflated.

(7) So mounted or inflated that it comes in contact with any part of the vehicle. (396.3(a)(1))

(8) Front Steering Axle(s): Weight carried exceeds tire load limit. This includes overloaded tire resulting from low air pressure. (393.75(f))

EXCEPTION: Does not apply to vehicles being operated under the special permit exclusion found in Federal Motor Carrier Safety Regulation. (393.75(f)(1) and (2))

(9) Passenger Carrying Vehicle: Regrooved, recapped, or retreaded tires on front steering axles. (393.75(d))

* b. All Tires Other Than Those Found on the Front Steering Axle(s) of a Powered Unit

(1) Tire has noticeable (e.g. can be heard or felt) leak, or has 50% or less of the maximum inflation pressure marked on the tire sidewall. (393.75(a)(3))

NOTE: Measure tire air pressure only if there is evidence the tire is under-inflated.

* (2) Any tire with visually observable bump or knot apparently related to tread or sidewall separation. (393.75(a))

EXCEPTION: A bulge (due to a repair) of up to 3/8 inch (1cm) in height is allowed. The bulge may sometimes be identified by a blue triangular label in the immediate vicinity.

* (3) So mounted or inflated that it comes in contact with any part of the vehicle. (396.3(a)(1))

NOTE: This includes any tire contacting its mate in a dual set.

* (4) Weight carried exceeds tire load limit. This includes overloaded tire resulting from low air pressure. (393.75(f))

EXCEPTION: Does not apply to vehicles being operated under the special exclusion found in Federal Motor Carrier Safety Regulation. (393.75 (f)(1) and (2))

* (5) Seventy-five percent or more of the tread width loose or missing in excess of 12 inches (30cm) in circumference. (396.3(a)(1))

On dual tires, both tires must meet one or more of the Out-of-Service conditions listed below.

- * (6) Bias Ply Tire: When more than one ply is exposed in the tread area or sidewall or when the exposed area of the top ply exceeds 2 square inches (13 sq. cm). (393.75(a)(1))
- * (7) Radial Ply Tire: When two or more plies are exposed in the tread area or damaged cords are evident in the sidewall or when the exposed area exceeds 2 square inches (13 sq. cm) in the sidewall. (393.75(a)(1))
- * (8) So worn that less than 1/32 inch (.8mm) tread remains when measured in any two adjacent major tread grooves (typically any groove containing a tread wear indicator) at 3 separate locations on the tire. (Measurements should not be made on stone ejectors or tread wear indicators). (393.75(c))

11. VAN AND OPEN-TOP TRAILER BODIES

a. Upper Rail

- (1) Broken with complete separation of the flange. (393.201)
- (2) Buckled or cracked when accompanied by missing, working (movement under stress) or loose fasteners at adjacent roof bows and/or side posts. (393.201)
- (3) Buckled or cracked when accompanied by broken, ineffective, or missing adjacent roof bows. (393.201)

b. Lower Rail

- (1) Broken with complete separation in the bay area accompanied by sagging floor, rail, or crossmember; or broken with loose, working (movement under stress) or missing fasteners at side posts adjacent to the crack. (393.201)

NOTE: The lower rail of a van or open-top trailer can become gouged, chunked, or bent during operation. These are superficial damages only and do little to degrade the rail's strength or integrity.

- (2) Drop frame trailers showing twists, bends, or fatigue cracking at the drop frame's elevation changes. (393.201)

c. Floor Crossmembers

- (1) Three or more adjacent broken, and/or completely detached from and sagging below the lower rail in the bay area. (393.201)
- (2) Broken floor accompanied by protruding freight and sagging crossmembers. (396.3(a)(1))

d. Side Panels on Fiberglass Reinforced Plywood (FRP) Trailers

Damage in the bay area that penetrates completely through the fiberglass and plywood resulting in a sagging lower rail. (393.201)

NOTES: These apply to every portion (a., b., c. and d.) of item 11.

1. These conditions are only considered Out-of-Service if the failure is in the bay area (aft of kingpin coupler plate and forward of the axle sub frame rails).
2. Trailers 30 feet (9.14m) or less in length have a short bay area and are not as susceptible to catastrophic failures, therefore, only rail breaks accompanied by a sagging floor, rail, or crossmember are out of service for them.
3. Rail, post, bow, crossmember, and side/front panel damage in areas outside the bay area are not imminently hazardous and should not be considered Out-of-Service unless they lead to conditions described in other items of the **North American Standard Out-of-Service Criteria** (i.e. item 10. b. (3) – “Tires”).

*** 12. WHEELS, RIMS AND HUBS**

a. Lock or Side Ring

Bent, broken, cracked, improperly seated, sprung, or mismatched ring(s). (393.205(a))

* b. Rim Cracks

Any circumferential crack. (393.205(a))

* c. Disc Wheel Cracks

- (1) Any crack exceeding 3 inches (76mm) or more in length. (393.205(a))
- * (2) A crack extending between any two holes (hand holes, stud holes and center holes). (393.205(a))
- (3) Two or more cracks anywhere on the wheel. (393.205(a))

* d. Bolt/Stud Holes (Disc Wheels)

Any visible elongated bolt/stud hole. (393.205(b))

e. Spoke Wheel Cracks

- (1) Two or more cracks more than 1 inch (25mm) long across a spoke or hub section. (393.205(a))
- (2) Two or more web areas with cracks. (393.205(a))

* f. Tubeless Demountable Adapter Cracks

- * (1) A crack exceeding 3 inches (76mm). (393.205(a))
- * (2) Cracks at three or more spokes. (393.205(a))

g. Fasteners

Loose, missing, broken, cracked, or stripped (both spoke and disc wheels) ineffective as follows: for 10 fastener positions - 3 anywhere or 2 adjacent; for 8 fastener positions or less (including spoke wheels and hub bolts) - 2 anywhere. (393.205(c))

* h. Welds

- (1) Any cracks in welds attaching disc wheel to rim. (393.205(a))
- (2) Any crack in welds attaching tubeless demountable rim to adapter. (393.205(a))
- * (3) Any welded repair on any aluminum wheel(s). (396.3(a)(1))
- * (4) Any welded repair other than disc to rim attachment on steel disc wheel(s). (396.3(a)(1))

* i. Hubs

- * (1) When any bearing (hub) cap, plug or filler plug is missing or broken allowing an open view into hub assembly. (396.3(a)(1) or 396.7)
- (2) Smoking from wheel hub assembly due to bearing failure. (396.3(a)(1) or 396.7)
- * (3) When any wheel seal is leaking. This must include evidence of wet contamination of the brake friction material and accompanied by evidence that further leaking will occur. (396.5)
- * (4) No visible or measurable amount of lubricant showing in hub. (396.3(a)(1) or (396.7)

NOTE: Grease/oil on the brake lining edge, back of shoe, or drum edge and oil stains with no evidence of fresh oil leakage are not conditions for Out-of-Service.

13. WINDSHIELD WIPERS

Any power unit that has an inoperative wiper or missing, or damaged parts that render it ineffective on the driver's side. (Applicable only in inclement weather requiring use of windshield wipers.) (393.78)

*** 14. BUSES**

* a. Emergency Exits

Emergency exits required by Section 393.62 that are missing, inoperative, or obstructed. (393.62 and 393.203)

* b. Wiring and Electrical Systems in Engine and Battery Compartments

- * (1) Electrical cable insulation chafed, frayed, damaged, burnt, causing bare cable to be exposed. (393.28, 396.3(a)(1))
- * (2) Loose or corroded connections at battery posts or unsuitable insulated protection to electrical components. (393.28, 393.77(b)(7), 396.3(a)(1))
- * (3) Missing or damaged protective grommets insulating main electrical cables through metal compartment panels. (393.30)
- * (4) Broken or unsecured mounting of electrical components. (396.3(a)(1))
- * (5) Electrical cables unsupported, hanging or missing clamps that may cause a chafing or frayed condition. (393.28, 396.3(a)(1))
- * (6) Any visual leaking of lubricant (i.e. engine supplied oil pressure) from electrical component such as alternator, auxiliary heater, etc. (396.5, 396.3(a)(1))

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Part III

NORTH AMERICAN STANDARD HAZARDOUS MATERIALS OUT-OF-SERVICE CRITERIA

POLICY STATEMENT

The purpose of this part is to provide criteria for the abatement of unsafe conditions in the transportation of hazardous materials and is based upon the presence of any condition(s) which fail(s) to communicate the hazard(s) or is an imminent hazard.

Except where state, provincial, or federal laws preclude enforcement of a named item, motor carrier safety enforcement personnel and their jurisdictions shall comply with these Out-of-Service violation standards.

OUT-OF-SERVICE: Condition(s) categorized in this document as “Out-of-Service” shall not be allowed to continue in commerce until the condition(s) is/are corrected and the shipment complies with the applicable regulations. If, at the discretion of the inspector, it is less hazardous to the public to relocate the vehicle, it shall be towed, transported, or escorted to a safe location only at the direction of an official authority.

When a U.S. DOT/Transport Canada specification cargo tank inspection is completed in conjunction with North American Standard Level I and/or Level V Inspection CVSA decals shall not be issued to U.S. DOT/Transport Canada specification cargo tank vehicles found to have violations of the following:

- Retest Requirements
- Cargo Tank Authorization
 - Does not include specification shortages
- Manhole Covers
- Internal Valves
- Discharge Valves
- Cargo Tank Integrity
- Supports and Anchoring
- Double Bulkhead Drains
- Ring Stiffeners
- Rear End Protection
- Emergency Flow Control
- Piping and Protection
- Overturn Protection
- Venting

1. **SHIPPING PAPERS – GENERAL**

Required to be present when required. An Out-of-Service condition exists when transporting hazardous materials not accompanied by a shipping paper which indicates the hazardous materials being transported.

NOTE: “Indicates the hazardous materials being transported” as used above, is interpreted to mean the presence of at least the Proper Shipping Name or the four-digit Identification Number for the material(s) being transported.

2. **PLACARDING**

a. The required placards must be displayed on a transport vehicle.

b. Number and Type of Placards:

An Out-of-Service condition exists when 50 percent or more of the required placards for a hazard class are missing or any placard(s) misrepresent(s) the hazardous materials being transported.

NOTE: For this out-of-service item to apply, a hazardous material / dangerous good must be present.

3. **BULK PACKAGES**

This section applies to specification packages, except that items “c.” and “e.” apply to all packages.

a. Internal Valve (Missing)

An Out-of-Service condition exists if the internal valve is missing when required.

b. Internal Valve (Open)

An Out-of-Service condition exists when the internal valve is in the open position.

c. Bulk Package Authorization

An Out-of-Service condition exists when transporting hazardous materials in a bulk package not authorized for the material being transported. Unless otherwise indicated herein, specification shortages shall not disqualify an otherwise authorized package.

d. Venting Devices, Manhole Covers and Discharge Valves

Missing or improperly secured manhole covers, venting devices, or discharge valves constitute an Out-of-Service condition.

e. Bulk Package Integrity

Hazardous materials leaking from a bulk package (including associated piping) constitutes an Out-of-Service condition.

f. Supports and Anchoring

An Out-of-Service condition exists when more than 25 percent of the supporting and/or anchoring mechanisms are ineffective.

NOTE: A bulk package which is also an intermodal container must also be secured in accordance with Part II, item 7. n. of these criteria.

4. TRANSPORT VEHICLE MARKINGS

a. The Required ID Numbers Must Be Displayed On A Transport Vehicle:

The ID numbers may be displayed on orange panels, a white square-on-point configuration, or incorporated with the placards.

An Out-of-Service condition exists when 50 percent or more of the required ID numbers are missing for each material or when any ID number misrepresents the material transported.

NOTE: In Canada required placards and markings must be displayed on four sides of all large means of containment.

5. POISON INHALATION HAZARD (PIH) MARKINGS

a. Non-Bulk Packaging – Present When Required

An Out-of-Service condition exists when required markings are missing or illegible.

b. Bulk Packaging – Present When Required

An Out-of-Service condition exists when required markings are missing or illegible.

6. NON-BULK PACKAGING

Package Integrity

A hazardous material leaking in or from a package constitutes an Out-of-Service condition.

7. LOADING AND SECUREMENT

a. Blocking and Bracing

Transporting HM/DG not blocked, braced, or secured as required by applicable regulation constitutes an Out-of-Service condition.

b. Product Compatibility

Transporting incompatible commodities constitutes an Out-of-Service condition, unless otherwise excepted.

c. Poison/Edible Materials

Transporting packages requiring “poison”/”toxic” or “poison – inhalation hazard”/”toxic” - inhalation hazard” label(s) in the same vehicle with foodstuffs, feed, or other edible materials intended for consumption by humans or animals constitutes an Out-of-Service condition, unless otherwise excepted.

NOTE: When initiating an Out-of-Service action, contact proper health authority within your jurisdiction.

8. FORBIDDEN ITEMS

Forbidden Materials

The transportation of forbidden items constitutes an Out-of-Service condition.

9. RADIOACTIVE MATERIALS – RADIATION LEVELS

Measured at Surface of Vehicle

An Out-of-Service condition exists when measurement exceeds 2mSv/hr (200 mrem/hour), at accessible surface of vehicle.

NOTE: When initiating Out-of-Service action, contact the appropriate health physicists, or radiation agency with jurisdiction.

10. EMERGENCY RESPONSE ASSISTANCE PLAN (ERAP) (In Canada Only)

An Out-of-Service condition exists when dangerous goods are transported in Canada without an approved ERAP when it is required.

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Part IV

NORTH AMERICAN STANDARD ADMINISTRATIVE OUT-OF-SERVICE CRITERIA

POLICY STATEMENT

The purpose of this part is to identify violations that prohibit the motor carrier from operating the commercial motor vehicle until the condition is corrected. The violations in this section are important aspects of the carrier's ability to operate lawfully and to help in maintaining uniformity across the industry.

The necessity for all enforcement personnel to implement and adhere to these standards is: (1) a matter of law; (2) perceived as necessary by the society we are charged with protecting, and (3) a professional obligation if substantial enhancement in the safety of commercial motor vehicle operators is to be achieved.

Except where state, provincial, or federal laws preclude enforcement of a named item, motor carrier safety enforcement personnel and their jurisdictions shall comply with these Out-of-Service violation standards.

OUT-OF-SERVICE VIOLATION: Violations under this category preclude further operation of a commercial motor vehicle by the carrier for a specified period of time or for some violations until a specific requirement has been complied with.

FMCSR code references in the *North American Standard Out-of-Service Criteria* are simply recommendations to help inspectors find an appropriate citation. Other codes may be more suitable for a specific condition.

1. **OPERATING AUTHORITY**

Operating a motor vehicle without the required operating authority or beyond the scope of the motor carriers' operating authority. (392.9a) **Place vehicle Out-of-Service until proper operating authority is obtained.**

* 2. **MEXICO DOMICILED CARRIERS OPERATING IN THE U.S.**

A Mexico-domiciled carrier (USDOT X Number) granted provisional operating authority pursuant to 49 CFR 365 operating a commercial motor vehicle in the United States that does not display a current CVSA decal(s) on both the power unit and towed unit(s). (385.103(c)) **Place vehicle(s) Out-of-Service until the vehicle(s) satisfactorily passes an inspection and a CVSA decal is issued.**

Strategic Plan

NORTH AMERICAN STANDARD OUT-OF-SERVICE CRITERIA

POLICY STATEMENT

The Strategic Plan is a product of CVSA Members and, as such, it should provide direction and guidance for Alliance activities over the next three years. It will be important to continually monitor and, as appropriate, update the Strategic Plan. It also is important (to the extent practicable) that the Alliance activities and programs align themselves with the Plan.

CVSA will execute this Plan by making sure all activities that take place within the Alliance are mapped to one or more elements within the Strategic Areas of the Plan.

In its communications with the members and those outside the organization, Alliance members and staff will relate organizational initiatives to the Strategic Areas within the plan, and, as appropriate, bring any potential modifications before the membership for discussion.

This Plan will be discussed at all CVSA Executive Committee meetings, other committee meetings and conferences. To make this document viable, the membership must take ownership of it and carry out its activities in the spirit of the Plan.

Finally, our values must guide our activities and be shared and practiced by the entire Alliance.

CVSA Mission, Vision and Values

Mission Statement

A mission statement should be a clear description of the purpose, mandate and “business” of an organization. The revised mission statement for the CVSA appears below:

To promote commercial motor vehicle safety and security by providing leadership to enforcement, industry and policy makers.

Vision Statement

A vision statement describes the "preferred future" of an organization. CVSA's vision statement is the following:

The CVSA will be recognized as the international authority on commercial motor vehicle safety and security.

Statement of Values

Organizational values are formal statements of beliefs that guide an organization in its relationships with its stakeholders as it discharges its mission in pursuit of its vision. CVSA's organizational values are the following:

- | | |
|--------------------------------|--|
| <i>Integrity:</i> | Providing our customers with the basis for trust, accountability and respect. |
| <i>Professionalism:</i> | Consistently developing the highest level of competence, work ethic, openness to new ideas, and continuous self-improvement. |
| <i>Leadership:</i> | To inspire, influence and support our members and partners in the pursuit of our mission. |
| <i>Teamwork:</i> | Valuing people working together to achieve common goals and partnerships to enhance our effectiveness. |

CVSA Strategic Goals

CVSA's strategic goals for the time frame from 2004 through 2008 appear below. The goals are listed in order of priority within each category.

1.0 Safety and Security

- 1.1 Ensure uniform and reciprocal application of North American Standard Inspection Procedures and *North American Standard Out-of-Service Criteria*.
- 1.2 Ensure effective roadside inspection, compliance review, and safety audit programs.
- 1.3 Increase traffic enforcement within the commercial vehicle environment.
- 1.4 Promote the collection and use of accurate real time data to drive commercial motor vehicle enforcement programs.
- 1.5 Promote the expansion of commercial vehicle safety and security programs at international borders and ports.
- 1.6 Integrate a strong security component into the North American Standard Inspection Program.
- 1.7 Ensure that technology supports enforcement's needs for focusing on high-risk carriers, vehicles, drivers and cargoes.

Outcomes of these goals would include increased knowledge of CMV operations and regulations, an increased comfort level of the motoring public, effective CMV enforcement and security, and reduced CMV fatalities, personal injury crashes and incidents throughout North America.

2.0 Outreach

- 2.1 Establish CVSA as the "go-to" organization for advice and support on issues related to commercial vehicle safety.
- 2.2 Further establish and enhance collaboration with national and international organizations with similar goals and values.
- 2.3 Increase the visibility of CVSA with the motoring public.
- 2.4 Continually publicize innovative and quality services that promote an interest in joining CVSA.
- 2.5 Influence positive government direction on commercial vehicle safety, enforcement and security issues throughout North America.
- 2.6 Explore the development of judicial outreach.

Successful implementation of these goals would position CVSA as the leading CMV safety organization in the world with the ability to influence government and individuals at all levels on CMV safety matters.

3.0 Training and Certification

- 3.1 Enhance and maintain core competencies in areas of roadside inspections, traffic enforcement, safety audits and compliance reviews for enforcement, motor carriers and industry.
- 3.2 Promote the expansion of enforcement personnel in North America through expanded training and certification initiatives.
- 3.3 Enhance the development of training programs using technology and other non-traditional modes of delivery.
- 3.4 Become the recognized standards and certification body for current and future stakeholders.
- 3.5 Expand training opportunities to include international security.
- 3.6 Develop a training curriculum in information technology for officers to enhance data quality and integrity.

Adopting these goals would result in the maintenance of uniformity and reciprocity and improved efficiencies through international accreditation of a North American training and certification program.

4.0 Organizational Development

- 4.1 Improve information dissemination between CVSA, roadside inspectors and drivers.
- 4.2 Maintain and expand the membership base.
- 4.3 Enhance and expand funding sources that will attract and retain a professional staff.
- 4.4 Foster the development of future leaders within CVSA.
- 4.5 Explore opportunities for increased organizational flexibility and responsiveness.
- 4.6 Promote increased participation of members throughout North America.

Implementation of the organizational development goals would lead to increased member participation and improved responsiveness to member issues.

North American Standard Inspection Levels

Level I

North American Standard Inspection – An inspection that includes examination of driver's license; medical examiner's certificate and Skill Performance Evaluation (SPE) Certificate (if applicable); alcohol and drugs; driver's record of duty status as required; hours of service; seat belt; vehicle inspection report (if applicable); brake systems; coupling devices; exhaust systems; frame; fuel systems; lighting devices (turn signals, brake lamps, tail lamps, head lamps and lamps/flags on projecting loads); safe loading; steering mechanism; suspension; tires; van and open-top trailer bodies; wheels and rims; windshield wipers; emergency exits for buses; HM requirements as applicable. HM required inspection items will be inspected by certified HM inspectors.

Level II

Walk-Around Driver/Vehicle Inspection – An examination that includes each of the items specified under the North American Standard Inspection. As a minimum, Level II inspections must include examination of: driver's license; medical examiner's certificate and Skill Performance Evaluation (SPE) Certificate (if applicable); alcohol and drugs; driver's record of duty status as required; hours of service; seat belt; vehicle inspection report (if applicable); brake systems; coupling devices; exhaust systems; frame; fuel systems; lighting devices (turn signals, brake lamps, tail lamps, head lamps and lamps/flags on projecting loads); safe loading; steering mechanism; suspension; tires; van and open-top trailer bodies; wheels and rims; windshield wipers; emergency exits on buses, and HM requirements as applicable. HM required inspection items will be inspected by certified HM inspectors. It is contemplated that the walk-around driver/vehicle inspection will include only those items, which can be inspected without physically getting under the vehicle.

Level III

Driver/Credential Inspection – An examination that includes those items specified under the North American Standard Level III Driver/Credential Inspection Procedure. As a minimum, Level III inspections must include, where required and/or applicable, examination of the driver's license; medical examiner's certificate and Skill Performance Evaluation (SPE) Certificate; driver's record of duty status; hours of service; seat belt; vehicle inspection report; and HM requirements. Those items not indicated in the North American Standard Level III Driver/Credential Inspection Procedure shall not be included on a Level III inspection.

Level IV

Special Inspections – Inspections under this heading typically include a one-time examination of a particular item. These examinations are normally made in support of a study or to verify or refute a suspected trend.

Level V

Vehicle-Only Inspection – An inspection that includes each of the vehicle inspection items specified under the North American Standard Inspection (Level I), without a driver present, conducted at any location.

Level VI

North American Standard Inspection for Transuranic Waste and Highway Route Controlled Quantities (HRCQ) of Radioactive Material – An inspection for select radiological shipments, which include inspection procedures, enhancements to the North American Standard Level I Inspection, radiological requirements, and the *North American Standard Out-of-Service Criteria for Transuranic Waste and Highway Route Controlled Quantities (HRCQ) of Radioactive Material*.

As of January 1, 2005, all vehicles and carriers transporting highway route controlled quantities (HRCQ) of radioactive material are regulated by the U.S. Department of Transportation and required to pass the North American Standard Level VI Inspection.

Previously, U.S. Department of Energy (DOE) voluntarily complied with the North American Standard Level VI Inspection Program requirements.

Select radiological shipments include highway route controlled quantities (HRCQ) of radioactive material as defined by Title 49 CFR Section 173.403. And, because only a small fraction of transuranics are HRCQ, DOE has decided to include its transuranic waste shipments in the North American Standard Level VI Inspection Program.

Level VII

Jurisdictional Mandated Commercial Vehicle Inspection – An inspection that is a jurisdictional mandated inspection program that does not meet the requirements of any other level of inspection. An example will include inspection programs such as, but not limited to: school buses; limousines; taxis; shared ride; hotel courtesy shuttles, and other intrastate/intraprovincial operations. These inspections may be conducted by CVSA-certified inspectors, other designated government employees or jurisdiction approved contractors. Inspector training requirements shall be determined by each jurisdiction. No CVSA decal shall be issued for a Level VII inspection but a jurisdiction-specific decal may be applied.

Qualifying for CVSA Decals

General

The North American Standard Level I and/or Level V are the only inspections that may result in issuance of a CVSA decal. To qualify for a CVSA decal, a vehicle must not have any Critical Vehicle Inspection Item violations contained in CVSA Operational Policy.

Inspections must be performed by and CVSA decals affixed by North American Standard Level I and/or Level V certified inspectors. The term “certified” as used in this section means the government employee performing inspections and/or affixing CVSA decals must have first successfully completed a training program approved by the Alliance. CVSA decals, when affixed, shall remain valid for a period not to exceed three consecutive months. Vehicles displaying a valid CVSA decal generally will not be subject to re-inspection.

However, nothing shall prevent re-inspection of a vehicle or combination of vehicles bearing valid CVSA decals, under the conditions specified in the section titled, “Vehicle Re-inspections”.

Critical Vehicle Inspection Items

- Brake Systems
- Coupling Devices
- Exhaust Systems
- Frame
- Fuel Systems
- Lighting Devices (turn signals, brake lamps, lamps/flags on projecting loads, tail lamps and head lamps)
- Safe Loading
- Steering Mechanism
- Suspension
- Tires
- Van and Open-Top Trailer Bodies
- Wheels and Rims
- Windshield Wipers
- Emergency Exits for Buses

CVSA Decals on Cargo Tanks

When a U.S. DOT/Transport Canada specification cargo tank inspection is completed in conjunction with North American Standard Level I and/or Level V Inspection CVSA decals shall not be issued to U.S. DOT/Transport Canada specification cargo tank vehicles found to have violations of the following:

- Retest requirements
- Cargo Tank Authorization
 - Does not include specification shortages
- Manhole Covers
- Internal Valves
- Discharge Valves
- Cargo Tank Integrity
- Supports and Anchoring
- Double Bulkhead Drains
- Ring Stiffeners
- Rear End Protection
- Emergency Flow Control
- Piping and Protection
- Overturn Protection
- Venting

Vehicle Inspections

Each vehicle (motorcoach, school bus, other bus, truck, truck tractor, semi-trailer, trailer, converter dollies etc.) used singularly or in combination may qualify for a CVSA decal if it passes inspection, and a CVSA decal shall be applied. "Pass Inspection" means that during a North American Standard Level I or Level V Inspection no defects are found of the following critical vehicle inspection items: brake systems; coupling devices; exhaust systems; frame; fuel systems; lighting devices (turn signals; brake lamps; tail lamps; head lamps; lamps/flags on projecting loads); safe loading; steering mechanism; suspension; tires; van and open-top trailer bodies; wheels and rims; windshield wipers and emergency exits for buses. For the purpose of a CVSA decal issuance, if no violation is detected during a North American Standard Level I or Level V Inspection due to a hidden part of the listed critical vehicle inspection items, CVSA decal shall be applied. An inspector can still apply a CVSA decal even though his/her jurisdiction does not allow for the inspection of gaseous fuel systems.

The CVSA decal criteria apply only to the condition of the vehicle, not the driver. It is possible for a driver to be out-of-service and still have vehicle(s) qualify for a CVSA decal.

Vehicle Re-inspections

For the purposes of uniformity in the application of this section and maximum maintenance of the reciprocity standard, re-inspection of a vehicle bearing a current and valid CVSA decal is contemplated under the following circumstances:

1. A North American Standard Critical Vehicle Inspection Items or out-of-service violation is detected.
2. When a North American Standard Level IV (Special Inspection) exercise is involved.
3. When a statistically based random inspection technique is being employed to validate an individual jurisdiction or regional out-of-service percentage, or
4. When re-inspections are conducted to maintain CVSA North American Standard Inspection quality assurance.

Location of CVSA Decals

The location for affixing a CVSA decal on a power unit shall be on the lower right corner of the exterior surface of the passenger's windshield.

The location for affixing a CVSA decal on trailing units (i.e. trailers, full trailers, semi-trailers, converter dollies) shall be on the lower right corner as near the front as possible.

The location for a CVSA decal on a cargo tank semi-trailer shall be at eye-level near the right front of the cargo tank and on the lower right corner of the exterior surface of the passenger's windshield of a straight truck.

The location for a CVSA decal on passenger vehicles shall be on the glass portion (window) of the passenger door as close to inspector's eye-level as possible.

Any expired CVSA decal shall be removed before a new CVSA decal is affixed.

Application of CVSA Decals

The quarter in which an inspection is performed is indicated by the color of the CVSA decal issued.

Inspection Period	Color Code
January, February, March	Green
April, May, June	Yellow
July, August, September	Orange
October, November, December	White

The year of issuance shall be indicated by using the last number of the calendar year (i.e. 2008 shall be indicated by the number "8") and shall be printed at the top portion of the sticker, with the CVSA trademark printed directly below.

CVSA decals affixed on the first month of a new calendar quarter must have both upper corners removed. Those issued during the second month of the same quarter must have the upper right corner removed. No corners are removed from those CVSA decals issued during the last month of a calendar quarter.

CVSA decals, affixed, will remain valid for the month of issuance plus two months. For example, a CVSA decal issued on July 28 will expire September 30.

In general, vehicles displaying a valid CVSA decal are not subject to re-inspection. However, if an obvious defect is noticed on a vehicle with a current CVSA decal, nothing prevents a party from re-inspecting that vehicle.

Should re-inspection of a vehicle displaying a valid CVSA decal disclose vehicle maintenance inconsistent with the minimum inspection criteria, the CVSA decal must be removed. However, if the defects found are repaired at the scene, the CVSA decal does not have to be removed. In those instances where a complete re-inspection is performed and defects were absent or corrected at the scene, a new CVSA decal should be applied.